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The



CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

FEBRUARY 19 1955

Good looking in the **SUN**

Bartlett's
FAMOUS M.P.23
to sell at **13/6d.**



M.P.23



M.P.23a



M.P.23b

Now presented in two shapes and 5 colours of ultra modern lenses. Degrade Smoked, Degrade-Green, Rose, Blue and Smoked. A neat light weight type metal frame fitted with first quality Rhodoid lenses. Individually boxed.

**Here's the
Sunglass sensation
of 1955**

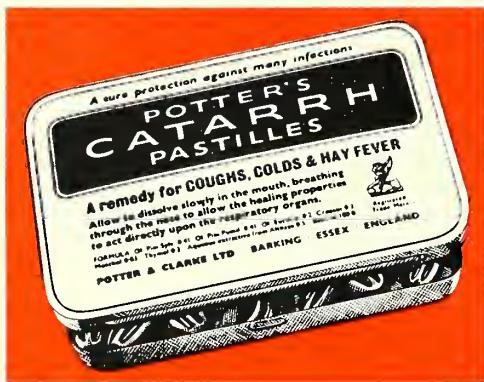
you had
free copy
1955
chure
rating
ull
lett range

ORDER NOW!
through your
usual wholesaler

★ ALL WHOLESALE ENQUIRIES TO :—

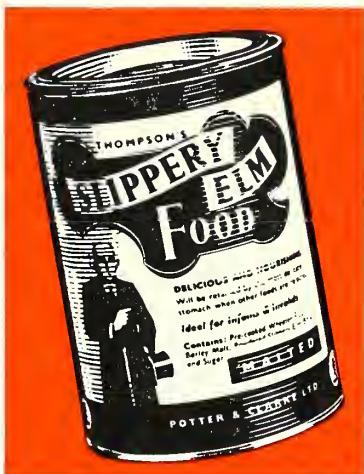
ALFRED FRANKS & BARTLETT CO. LIMITED

226/8 GRAYS INN ROAD · LONDON · W.C.1 Telephone: TERMINUS 9865/8



POTTER'S CATARRH PASTILLES

With the famous
'fighting formula'



THOMPSON'S SLIPPERY ELM FOOD

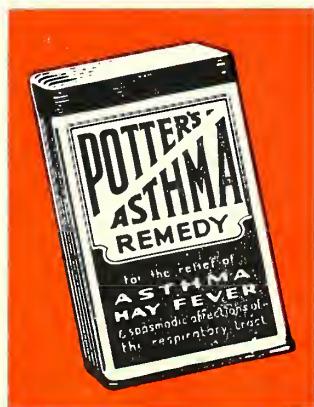
Obtainable in three varieties:—

- MALTLED
- UNMALTLED
- WHOLEMEAL MALTLED



Top sellers from the **Potter's** range of products

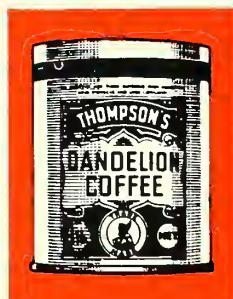
So well known
and so —
well sold!



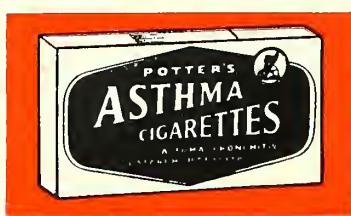
POTTER'S ASTHMA REMEDY
With special 'pyramid' dispenser

BOTTER'S ASTHMA CIGAR

**POTTER'S ASTHMA CIGARETTES
& SMOKING MIXTURE**



**THOMPSON'S
DANDELION COFFEE**
Excellent for dyspeptics



THROUGH
WHOLESALEERS
ONLY
PLEASE



Sole Manufacturers
POTTER & CLARKE LTD
RIVER ROAD · BARKING · ESSEX



Here's
a line
with
NO
Competition

6 out of every 10 mothers who come into the shop will want to buy NILBITE if they see it on your counter.

NILBITE is the only proprietary which really stops nailbiting and thumbsucking. It contains no aloes, no quassia and is absolutely harmless.

And, retailing at 2/9, (no purchase tax,) it shows you a profit of 1 1d. a bottle, (3 3/4%—7 1/2% additional profit if ordered on 'ALL-IN' terms.)

This striking little display occupies only 4" of your counter, but most chemists find it helps our press advertising to bring useful, extra turnover every week.

WALTER CROWE LTD.

DISTRIBUTORS

3-4 LITTLE RUSSELL STREET, LONDON, W.C.1

Telephone: Chancery 7051/2

Telegrams: Relialines, Westcent, London

Quinine
the natural antimalarial

Quinidine
including

Quinidine Gluconate
for injection

N.V. Amsterdamsche Chininefabriek, Amsterdam

N.V. Nederlandsche Kininefabriek, Maarssen

DISTRIBUTORS:

R. W. GREEFF & CO., LTD.

HEAD OFFICE

12 Finsbury Circus, London, E.C.2

London Wall 5241

Wires: GREEFF AVE, LONDON

and at

The Royal Exchange, Manchester

Blackfriars 9407-8

Wires: Greeff, Manchester

PURCHASE TAX ANNOUNCEMENT

Alka-Seltzer

TRADE MARK

To protect retailers against loss of Purchase Tax on ALKA-SELTZER in the event of a reduction or remission of such tax being announced in the forthcoming 1955 Budget, the following guarantee is given:

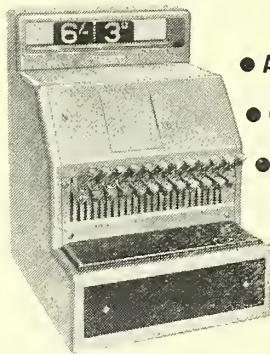
On all ALKA-SELTZER invoiced by Don S. Momand Ltd. *direct* to a non-registered retailer between February 14th and February 28th inclusive, 50% of any reduction in Purchase Tax will be refunded. On all such orders invoiced between 1st March and Budget Day inclusive, 100% of any reduction in Purchase Tax will be refunded.

This guarantee applies whether or not the goods invoiced as above have been sold prior to Budget Day. Refunds will be made by Credit Notes as soon after Budget Day as possible, and will be made automatically without application by retailers.

Sole Distributors DON S. MOMAND LTD 58 Albany Street, London, NW1

The above guarantee is given on behalf of Miles Laboratories Ltd., manufacturers of ALKA-SELTZER

The **UNIVERSAL**



GIVES YOU

- ACCURATE RECORDS
- COMPLETE CONTROL
- SPEEDY COUNTER SERVICE

for

£1 DEPOSIT

and £4 Monthly

COSTS SO LITTLE — SAVES SO MUCH

1886 America made the first Cash Register

1948 **UNIVERSAL** sold the first British Cash Register to America

WIDELY KNOWN and WIDELY USED

Write for Illustrated Catalogue to :

UNIVERSAL CASH REGISTER CO (1951) LTD.

HEAD OFFICE : 146/8, Mansfield Rd., Nottingham

London Showrooms : 349, Euston Rd., London, N.W.1.

Branches throughout the United Kingdom

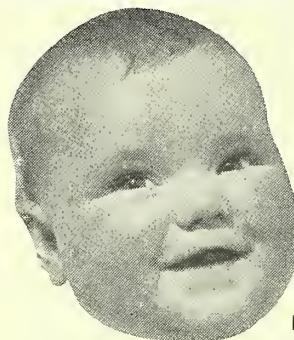
are you convinced

.... that you are obtaining sufficient advertising value from your printing . . . if you have any doubt, why not take advantage of our long experience in the manufacture of medical literature and contact us about your next enquiry.

ALF. HARRISON & SONS LTD.

Carton, Medical and Advertising Printers

BURLEY ROAD, LEEDS, 4



Olita — a best-seller in baby pants

Olita plastic baby pants are washable, hygienic, odourless and thoroughly waterproof. Designed specially to give baby

maximum comfort they are available in three styles—

Open Leg, Elastic Leg and Press Stud Side in medium and large sizes.

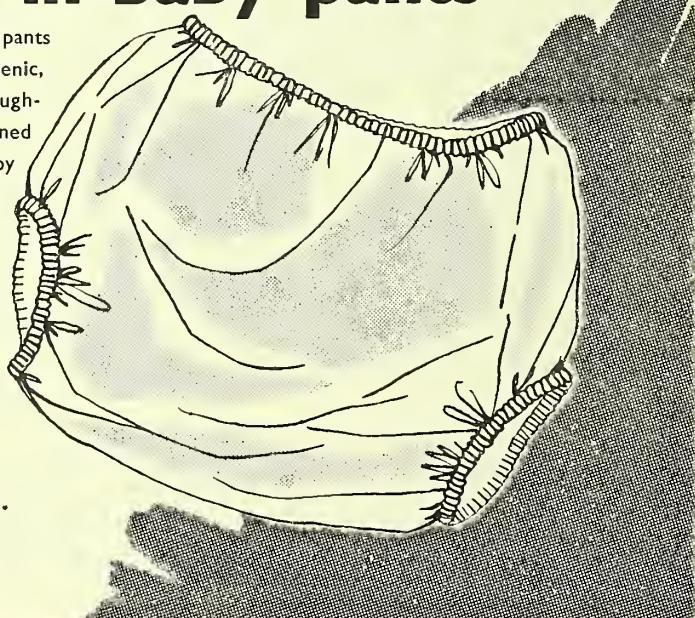
Olita covered plastic baby pants are plastic lined with coverings of either Taffeta, Nylon or Locknit. Competitive prices.

Available in display boxes each containing one dozen.

WILLIAM OLIVER'S (RUBBER) LTD.

Blackhorse Lane, London, E.17
Telephone : LARkswood 8811

Wholesale & Export only



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CARTWRIGHT'S for tablets

Experienced hands, modern methods and up-to-date equipment ensure for you the consistent high quality and perfection of finish upon which you can confidently rely.

W. B. CARTWRIGHT LTD
MANUFACTURING CHEMISTS

RAWDON

•

LEEDS

We prepare tablets to B.P.,
B.P.C., N.F. or your own formula,
processing your own materials, if
desired. OWN NAME packaging and label-
ing is also part of our service.
May we quote you for your
requirements large or small?

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Stable, soluble, palatable, calcium aspirin

Aspirin can now be administered in bland, complete solution—as 'Disprin.' Disprin tablets not only overcome the two well-known defects of ordinary aspirin; but also that of calcium aspirin, which, as generally prepared, is liable to chemical breakdown during manufacture and storage. In the form of Disprin, dosage with calcium aspirin becomes both predictable and palatable.

DISPRIN
REGD.

*Provides stable, soluble,
palatable calcium aspirin.*



Modess
Masslinn

FREE OSTEND HOLIDAY CONTEST

Six prizes—each consisting of fourteen days in lovely Ostend any time during June or September, 1955, for you and your family (or you and a friend if you are single). First class hotels. First class food. First class travel there and back. All free—plus £50 to spend while you are there.

Here's how to win. If you are a shop owner or manager, simply see that all your counter assistants enter the Contest. If one of them wins, there's an entirely separate free holiday for you too.

If you are an assistant, start to-day collecting the bands from all the packets of Modess Masslinn sanitary towels you sell. Fill in the Entry Form below, completing the sentence: "I recommend Modess Masslinn to my customers because . . ." using not more than twenty additional words. Then send it in with 50 bands. Send as many entries as you like, providing each is accompanied by 50 bands. Prizes will be awarded to the six entries judged to be the most apt, original and sincere. Prize-winning entries will be chosen by an independent panel of judges. The judges' decision shall be final and no correspondence can be entered into. Proof of posting cannot be accepted as proof of delivery. The last date for entries to reach us is 30th April, 1955.



ENTRY FORM

To: Johnson & Johnson
 (Gt. Britain) Ltd.,
 Dept. CD.,
 24-25 Princes Street,
 London, W.1.

Fill in this coupon and attach it to your entry on a plain sheet of paper on which you should complete the sentence: "I recommend Modess Masslinn to my customers because . . ." using not more than twenty additional words. Be sure to send 50 Modess Masslinn bands with your entry.

Name.....

Shop Address.....

.....

I have read the rules of the Contest and agree to abide by them.

COX

for counter sales that keep custom

Available in 9 attractive packaging styles including Chemist's 'Own Brand' series.

ARTHUR H. COX & CO. LTD.
Manufacturing Chemists since 1839
BRIGHTON

Quality sells quickest!

Hinders

RADIARAY

Infra Red and Radiant Heat Lamps
are the finest value obtainable.

Model 101
Retail price
69/6
Incl. Tax

Attractively designed, soundly constructed
from first-class materials and beautifully
finished, the wide range includes two Tax
free Prescription models. Quick delivery
assured.

Illustrated brochure available from **Hinders Limited**
Dept. 4, 174/192 Euston Rd., London, S.W.6. Est. 1919



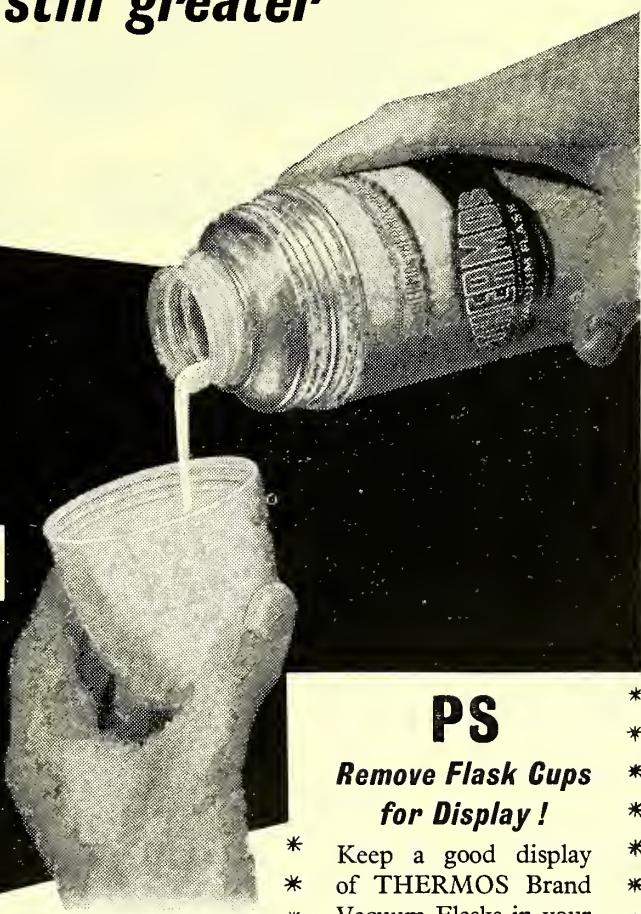
*By Appointment
to the late
King George VI*

***There's a steady demand for
THERMOS all-the-year-round
and now — to give still greater
sales-impetus —***

THERMOS
REGISTERED TRADE MARK

Announce the
**Biggest National
Press Campaign
in the
Company's History**

(Details Later)



Bright new

Thermos advertising will be

appearing in mass-circulation publications

during the Summer — just the right time

to appeal to our nation of picnic-lovers! Keep an eye

out for this new campaign . . . keep your shelves

well stocked in preparation . . . and don't be surprised by a

PS
*Remove Flask Cups
for Display!*

* Keep a good display of THERMOS Brand Vacuum Flasks in your shop — its "reminder" value will make many a sale. And remember to show the flask models *with the cup off!* The new unbreakable, easy-pour polythene lip is a unique THERMOS feature well worth showing off!

Big Increase in Demand!

Over

MUST BE WON

in the **Rexall** Spring Window Display Conte

FEBRUARY 26—MARCH 12

GRAND PRIZE

£100

3 PRIZES OF

£50

4 PRIZES OF

£30

and generous consolation prizes:—

5 of £10, 10 of £5 and 30 of one guinea.

A powerful drive is now under way to bring more **Rexall** customers to your shop! As part of this, 53 handsome money-prizes—totalling more than £500—are being offered to chemists who devise the most eye-catching **Rexall** window-displays between now and March 12th.

Everyone who stocks Rexall products can enter. Small windows have as good a chance as large; all that matters is a really arresting display that will make people stop, look—and come in and buy.

Your display must contain six or more of the ever-popular **Rexall** products listed here. You may make use of any of the **Rexall** showcards, and the other striking **Rexall** display material—supplies of these are available FREE.

Displays must be on view from February 26th to March 12th 1955. When yours is complete, have one or more photographs taken, and mail to us *not later than March 29th*. Make a note of the date—and start planning your prize-winning display NOW!

TO WIN ONE OF THESE HANDSOME PRIZES—AND BOOST YOUR SALES, TOO!
DESIGN YOUR DISPLAY TO FEATURE SIX OR MORE OF THESE FAST-SELLING REXALL LINES:—

**BISMA-REX**

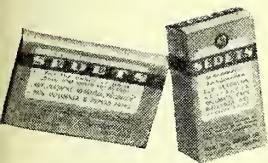
Powder, Tablets and Gel
 for the relief of indigestion,
 heartburn, flatulence, etc.

**BREWERS' YEAST Tablets**

rich natural source of vitamin B
 (also in flake form in tins of 3 ozs.)

**ORDERLIES**

the safe, gentle laxative in tablet form

**SEDETS Tablets**

for headaches, neuralgia, rheumatic pains,
 etc.

(contain no aspirin)



AGA-REX
 the pleasant-to-take family laxative
 in liquid form



BONE AND NERVE LINIMENT
 for rheumatism, sciatica, lumbago, sprains, etc.



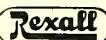
**PLENAMINS &
 JUNIOR PLENAMINS**
 multi-vitamin capsules



TINY TOT SERIES:
 Aspirin, Gripe Mixture, Baby Bib,
 Baby Oil



**FRUIT-FLAVOURED
 CREAM OF MAGNESIA**
 and **EYEO** Eye Lotion

You can depend on any product bearing the name 

Mail your Rexall requirements (stating the display material you want) to :
REXALL DRUG CO. LTD., LOUGHBOROUGH, LEICESTERSHIRE

or, if in Eire, to : Messrs. Hayes, Conyngham and Robinson Ltd.
THE REXALL DEPOT, 12 GRAFTON STREET, DUBLIN

Lowest Priced,
Finest Quality,

SECTO

AEROSOL INSECT SPRAY

SECTO

*Ultra Rapid Action
Airborne Insect Spray*

5/-

SUPER QUALITY 4 oz. — 5/-
6 oz. — 6/6 12 oz. — 10/6

At usual retail trade prices

SPECIAL BONUS

*on orders sent now for delivery before
April 30th*

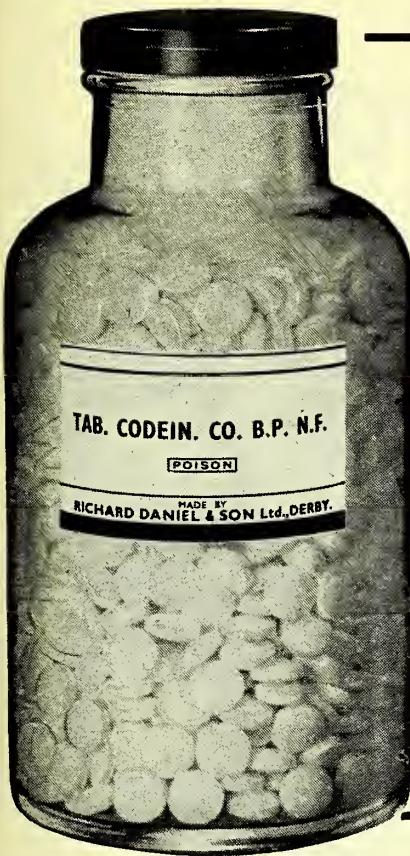
15% on 3 dozen

12½% on 1 dozen

*Similar bonus discounts on £10 & £5 SEPARATE PARCELS OF
SECTO STANDARD LIQUIDS AND POWDERS*



CUPAL LTD. • MANUFACTURING CHEMISTS • BLACKBURN



TABLETS of QUALITY

*Manufactured by
modern machinery
under skilled supervision*

Quotations for large or small quantities

RICHARD DANIEL & SON LTD
MANUFACTURING CHEMISTS

MANSFIELD ROAD **DERBY** TEL. 48266 (4 lines)
AND AT GROSVENOR STREET, ASHTON-U-LYNE. TEL. 2816 (3 lines)

Bradosol

LOZENGES

each containing 0.5 mg. Bradosol (β -phenoxy-ethyl-dimethyl-dodecyl ammonium bromide)

PROMPTLY RELIEVE **Sore Throats**

EFFECTIVE AGAINST A WIDE RANGE OF BACTERIAL AND
FUNGAL INFECTIONS OF **Mouth and Throat**

Tubes of 20 lozenges (2/6)

Subject to the usual discounts Exempt Purchase Tax

C I B A LABORATORIES LIMITED • HORSHAM • SUSSEX
'Bradosol' is a registered trade mark Reg. user
Telephone Horsham 1234 Telegrams Cibalabs, Horsham.



Millions
are reading about this
wonderful appliance

Thermaisseur

THE SAFE AND SURE ELECTRIC HOME MASSEUR

Recommended to DOCTORS · APPROVED by Doctors

Radio Times, Picture Post, Family Doctor, Woman and Home and other popular journals are telling your customers about the Thermaisseur. Advertised widely in the medical press, it has earned recognition by eminent doctors and physicians. FEATURES : Combines heat, massage and infra-red rays : Weighs only 6 oz. : Operates at 6 volts from A.C. mains : 6 ft. lead with adaptor and plug : Can be recommended for most types of rheumatism; strained muscles; fractures; and nervous complaints.

You are invited to send for showcards and fully descriptive and testimonial folders 'J' from :

E. WALKER & CO. (Electrical Engineers) LTD.

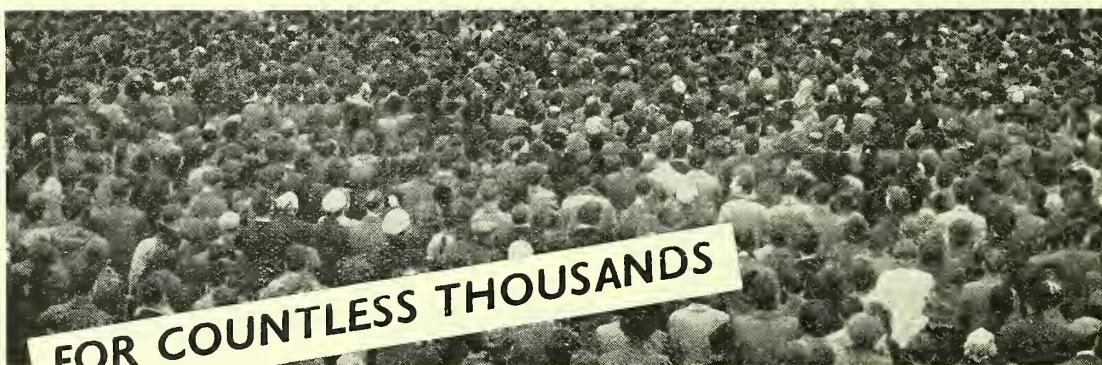
THE PHOENIX WORKS, THE HYDE, HENDON, LONDON, N.W.9



£4 · 19 · 6 retail

COMPLETE INCLUDING TAX

BRIT. PAT. 672,151



Since B.D.H. introduced its first products of steroid research in 1933 the substances have been the subject of continuous study in the B.D.H. Research Laboratories. Today, countless thousands of people are assisted through the critical phases of life by

B.D.H. Sex Hormones

The comprehensive range covers the field in this branch of medicine.

THE BRITISH DRUG HOUSES LTD. LONDON N.I

- 'MEPILIN' combined androgen-oestrogen
- 'ESTIGYN' Ethinyl Oestradiol B.D.H.
- 'OESTROFORM'
- 'DIENESTROL' B.D.H.
- 'STILBOSTROL' B.D.H.
- 'HEXESTROL' B.D.H.
- TESTOSTERONE PROPIONATE B.D.H.
- METHYLTESTOSTERONE B.D.H.
- PROGESTIN B.D.H.
- ETHISTERONE B.D.H.
- 'GONAN'
- 'SEROGAN'



Overall size 15½ ins.
by 10½ ins. Height 6½ ins.

... with the
PETCO
TILL

The outstanding feature of the Petco till is the duplicate receipt issued for every transaction; this ensures that the exact money taken must go into the drawer. In addition, a device which operates each time the drawer is opened, records the total number of sales and indicates if there has been unauthorised access to the till. All you have to do is to record the amount of the sale and press the release bar. Immediately and automatically the cash drawer springs open . . . the warning bell rings . . . the sales record moves up under the window . . . a receipt is issued for the customer and the counting device records the further sale.

- Issues a receipt for every customer
- Counts the number of sales
- Gives a complete record of the days takings
- Metal construction. Fully guaranteed

The till that makes mistakes obvious

Price 16 gns.

SEND FOR ILLUSTRATED BROCHURE to the MANUFACTURERS

A.G.S. & PETRONIC LTD.
BEL WORKS ESTATE, HAMPTON ROAD WEST,
HANWORTH, FELTHAM, MIDDX. Tel.: Feltham 4054



Savory & Moore

... the facility of buying Savory & Moore high quality Pharmaceutical Products locally is not without its attractions to "more discerning" customers—the customers who form the backbone of your "goodwill." A display based on the following list of regularly advertised specialities will forge many a link of enduring patronage.

DR. JENNER'S

Absorbent Lozenges for Indigestion

MEDILAX

Laxative Pellets

DENTURAL

Liquid Denture Cleanser

QUINASP

Influenza Capsules

TAYLOR'S CIMOLITE

The perfect Talcum Powder

CHILDREN'S BLACK Currant Linctus

Children love its pleasant taste

Write for particulars
of bonus display terms

Savory & Moore

Standard Works, Lawrence Rd., Tottenham, N.15

IMPORTANT

Owing to the increased cost of materials it has become necessary to raise the retail price of Lifeguard and Embassy Toilet Rolls.

The increase has been kept to the absolute minimum.

LIFEGUARD

TOILET ROLLS

From 1/1d. to 1/2d.

EMBASSY

TOILET ROLLS

From 6d. to 6½d.

*This increase in price is effective from
MONDAY, 21st FEBRUARY, 1955*

"SURGEXA" SURGICAL DRESSINGS in 'Carton' Pack

More Chemists ask for
"SURGEXA" CARTON PACK
DRESSING

Orders and Enquiries :

CHEMISTS' SUNDRIES (Preston) LTD.

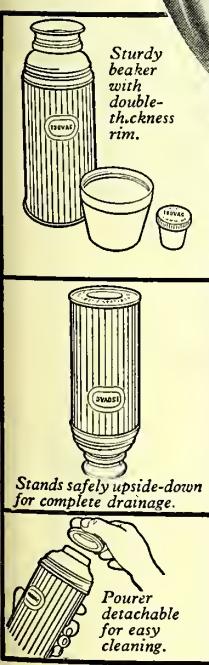
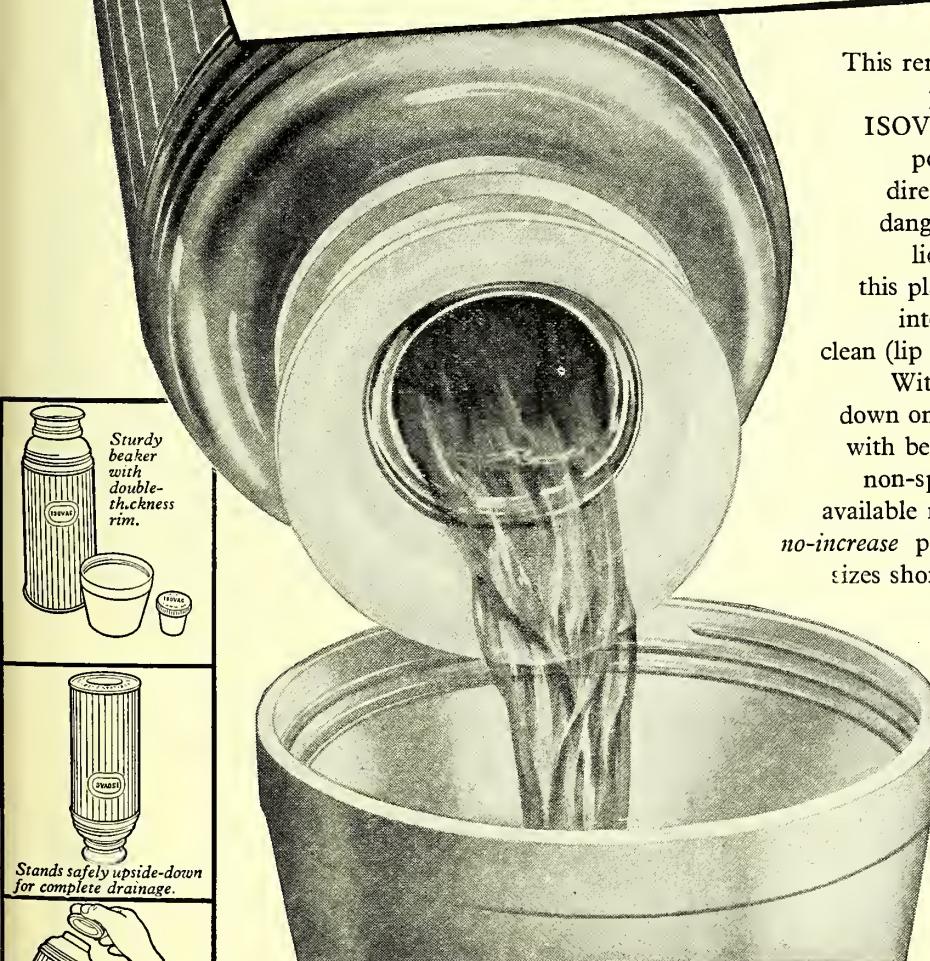
BAMBER BRIDGE • PRESTON • LANCS

Phone : 85403

**NOW! Detachable non-drip
all round pourer
at no extra cost makes**

ISOVAC

**FLASKS
better sellers than ever**



This removable all-round hygienic plastic pourer (exclusive to ISOVAC) makes filling easy and pouring a pleasure. Fitting directly on to the shoulder (no danger of dribbling—no risk of liquid seeping into canister), this plastic lip helps protect glass interior. Makes flask easy to clean (lip lifts off) and easy to drain. With care stands safely upside down on plastic pourer. Complete with beaker with double-thickness non-splash rim. New lip fitting available now on 16 fl. oz. flasks—at no-increase price. Available on other sizes shortly. Place your order now.

*British Registered
Design 869618
Patent applied for*

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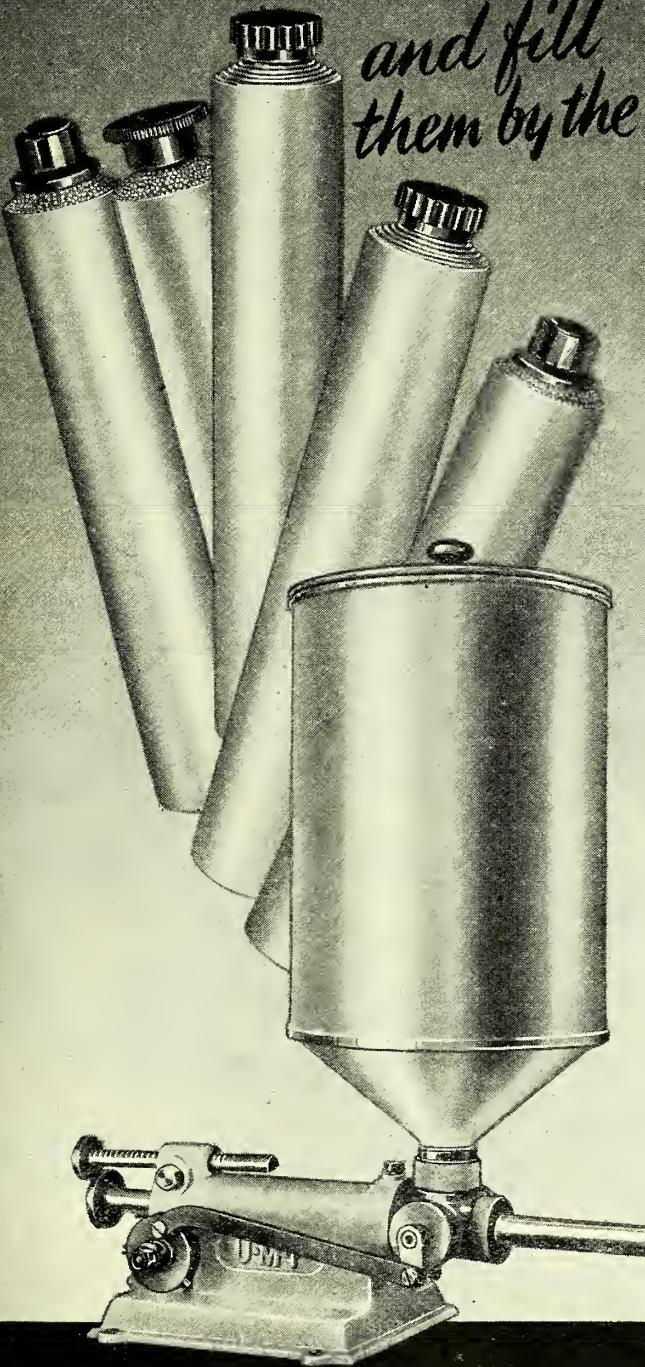
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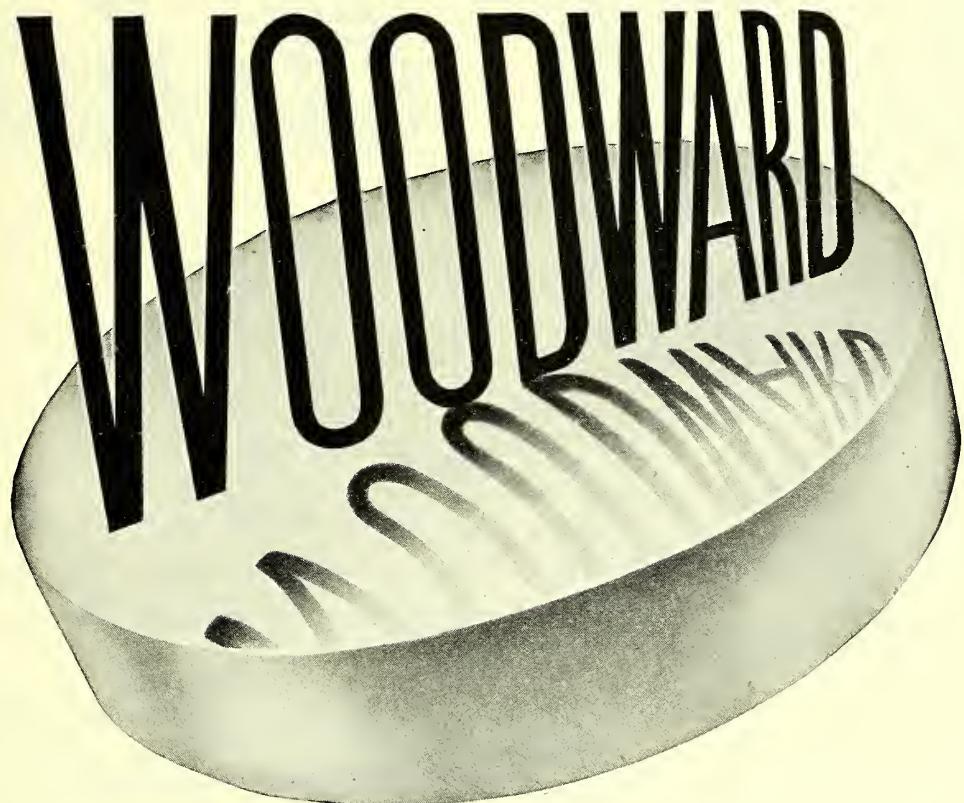
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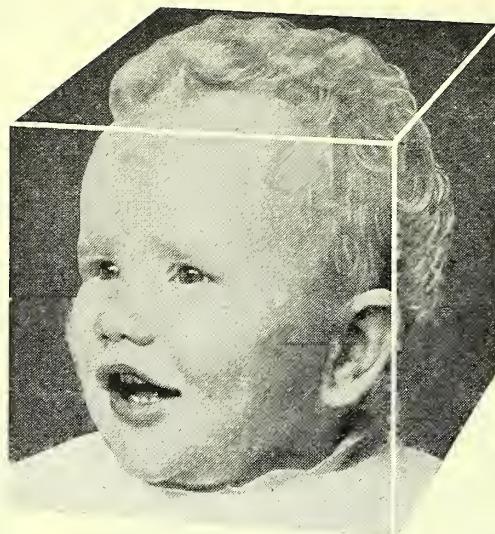
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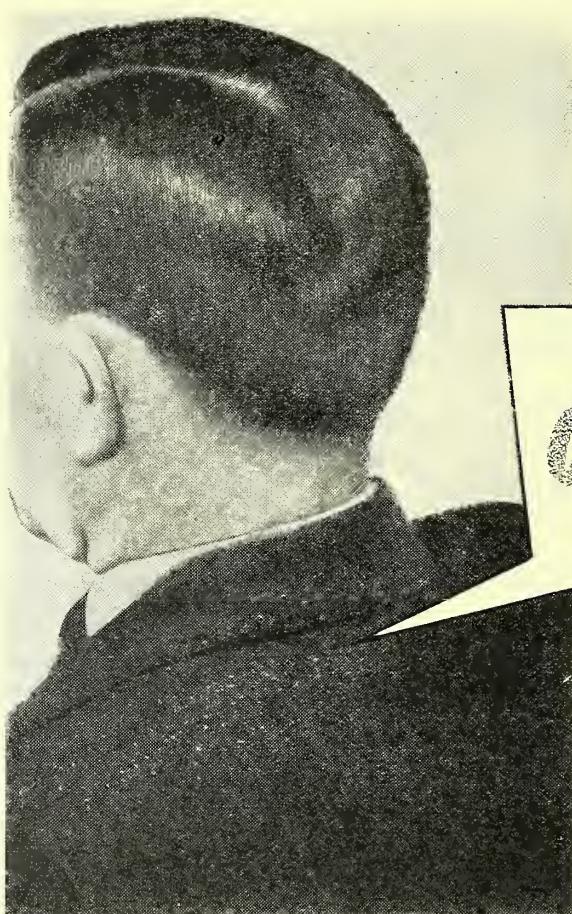
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THE CHEMIST AND DRUGGIST

ESTABLISHED 1859

The weekly newspaper for pharmacy and all sections of the drug, pharmaceutical and fine chemical, cosmetic, and allied industries

*Official organ of the Pharmaceutical Society of Ireland
and the Pharmaceutical Society of Northern Ireland*

Volume 163 February 19, 1955 No. 3913

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The CHEMIST AND DRUGGIST

Volume 163

FEBRUARY 19, 1955

No. 3913

Key Industry Duty

CHEMICAL EXEMPTIONS AND DELETIONS

THE Safeguarding of Industries (Exemption (No. 1) Order, 1955) (S.I., 1955, No. 248) continues from February 19 until August 18, the exemption from key industry duty of all the articles exempted from that duty by previous Orders which expire on February 19, with the ADDITION of:—

N-Benzyl-N'-dimethyl-N-2-pyridylethylene-diamine citrate
N-Benzyl-N'-dimethyl-N-2-pyridylethylene-diamine hydrochloride

o-Chlorobenzoic acid
p-Cresol

Toluene-p-sulphon dichloroamide and with the DELETION of:—

Gadolinium oxide
p-tert-Butylphenol

p-Chlorotoluene

Di-n-butylamine

Di(monomethylcyclohexylorthophthalate

Ethyl monocyanacetate

Ethylene glycol ether-esters, the following:—

2-n-Butoxyethyl 4-chloro-2-methylphenoxycacetato

2-n-Butoxyethyl 2:4-dichlorophenoxyacetato

2-n-Butoxyethyl 2:4:5-trichlorophenoxyacetato

β-2:4-Dichlorophenoxyethyl sodium sulphate

Histamine dihydrochloride

monoMethylcyclohexanol

tetraSodium pyrophosphate

penaSodium triphosphate

Purchase Tax Returns

£1.5 MILLIONS LESS FROM MEDICINES

CUSTOMS and Excise returns for the year ended March 31, 1954, published recently, show that the revenue received from purchase tax on medicines fell to £8.6 millions from £10.1 millions in the previous year. [The rate of tax was reduced from 33½ per cent. of the wholesale value to 25 per cent. on April 15, 1953, and as the tax is payable quarterly in arrear the reduced rates affected receipts from the tax in three of the four quarters of the year under review.] The total yield from purchase tax was £299.3 millions (against £314.5 millions), of which perfumery, cosmetics and toilet preparations were responsible for £20.3 millions and photographic goods for £2.9 millions. Net receipts from duties on imported medicines, drugs, amounted to £336,229 (£204,442) and from essential oils, £93,629 (£74,825). Key industry duty on synthetic organic chemicals, fine chemicals, analytical reagents, etc., raised £740,931 (£559,306 in 1952-53 and £1,086,895 in 1951-52).

Imports from Hong Kong

U.K. TOOTH-BRUSH MAKERS MOVE

A MEETING was held recently under the auspices of the National Union of Manufacturers, when brush manufacturers, along with representatives of other industries, joined in a discussion on the problems created by increasing imports from Hong Kong. Toothbrushes and nail-brushes are among such imports, many of which, it was said, did not conform to the Merchandise Marks Act, 1926, which requires the indication of origin to be impressed on each brush in a contrasting colour and that each carton should also bear the indication of origin.

Insect Pests on Show

LONDON EXHIBITION'S GRISLY WARNING

AN exhibition, "You versus Pests," opened at the Royal Sanitary Institute, London, S.W.1, on February 14. It has been organised by the Institute in conjunction with the Ministry of Agriculture and Fisheries, and among other things it shows—in glass jars but alive—most of the insects and mites that infest stored products in Britain. A world map shows the countries of origin of stored food and other infestable products. Insects the British housewife may encounter in her home are the subject of a separate small section.

The live insects are grouped so far as possible according to the orders to which they belong (moths, beetles, cockroaches and mites). One of the principal responsibilities of the Infestation Control Division being the protection of foodstuffs from damage by insects and mites, other exhibits illustrate the inspection of cereals, oilseeds, etc., to discover infestation, and arrangements made for its control. Ways in which infestation spreads (by flight; by container; by transport vehicle; re-use of containers, etc.) are explained, as are methods of preventing damage (orderly stacking, with spaces between stacks; use of stocks in rotation; regular cleaning of walls and floors, etc.) and cure (use of fumigants or of contact insecticides). Five fumigants in common use (methyl bromide, hydrogen cyanide, ethylene oxide, carbon tetrachloride and ethylene dichloride) have their applications explained. The insecticides shown have been chosen to demonstrate types of formulation obtainable. They include pyrethrum, gamma BHC, DDT, chlordane and dieldrin products. The exhibition remains open until March 12.

Electric Sign Design

COMPETITION PRIZEWINNERS

THE first illuminated sign design competition to be held in this country (sponsored by the Electrical Sign



Manufacturers' Association) has been won by Mr. J. K. W. Hopgood, New Southgate, London, N.11, who receives a cheque for £100. Second prize (£50) has been awarded to Mr. R. W. Pepper, Welling, Kent. On the recommendation of the judges, one of the three consolation prizes (£25 each) was made into a third prize, increased to £35, and awarded to Mr. Stanley Rickard, Mitcham, Surrey, a student and therefore an amateur. The remaining two consolation prizes went to Mr. F. T. Oliver of Westcliff-on-Sea, Essex, and Mr. Peter Watkinson, A.R.I.B.A., Leeds. Altogether there were ninety-two entries. Prizes are being awarded at a luncheon in London on March 9, when the chief guest will be Mr. William Deedes, M.P. (Parliamentary Secretary to the Ministry of Housing and Local Government).

Supplementary Estimate

PHARMACEUTICAL COSTS UP

A SUPPLEMENTARY estimate for the year ending March 31, 1955, published recently shows that the pharmaceutical service in England will require a further £2,028,000, bringing the total to £38,992,000 for the year; in Wales will require a further £105,000, bringing the total estimate to £3,202,000; and in Scotland will require £250,000 bringing the total to £5,250,000. The supplementary English and Welsh estimates are mainly due to an increase in the number and average cost of prescriptions, partly offset by the effect of a change in the arrangements for pricing prescriptions and payment of pharmacists. The supplementary Scottish estimate is required because the number and average cost of prescriptions have been greater than expected. The Health Service as a whole in England and Wales requires an additional £4,848,000 and in Scotland requires £1,233,000.

Accidents to Children

PICTURES AID HOME SAFETY CAMPAIGN

A FOUR-PANEL picture set has been produced for the Ministry of Health illustrating ways of guarding against three of the most common fatal accidents in the home that can befall young children: Burns and scalds and deaths from accidental poisoning. The set shows the widespread nature of those accidents, and what precautions parents should take to prevent them. The section dealing with accidental poisoning points out that drugs should be kept in a locked cupboard out of reach and the key hidden. The set has four panels 15 x 12 in., printed on red card. Copies have been offered to local health authorities, and distributed also through the Royal Society for the Prevention of Accidents, the St. John Ambulance Brigade, the British Red Cross Society, the Women's Voluntary Services and hospitals. One set is being offered to each Executive Council.

Famous Pharmacy Closes

NINETY YEARS IN MANCHESTER

WESTMACOTT'S Pharmacy, Ltd., 17 Market Street, Manchester, 1,

closed its doors for the last time on January 31, after ninety years in the city. The block of buildings in which the shop has had its premises has been bought and will eventually be demolished. Because of the difficulties of finding other suitable premises in the city the directors of the company have decided to close down. The firm was originally founded by Mr. George Leonard Westmacott in 1830. The shop's prescription books go back to 1863. It has been mentioned in several novels, including Gilbert Frankau's *Peter Jackson, Cigar Merchant*. The company's most famous speciality was a pick-me-up made to a private formula which the company will not disclose.

Cortisone and ACTH

FOR ACUTE LEUKAEMIA

THE Ministry of Health has accepted a recommendation from the Medical Research Council that acute leukaemia (either in children or adults) should be added to the list of conditions for which supplies of cortisone and ACTH, additional to those for ordinary treatment, can be sent to hospitals receiving regular monthly issues of those substances. Additional supplies are already being sent to those hospitals for the following conditions:—Addison's disease, adrenal hyperplasia, adrenalectomy, pituitary dysfunction, disseminated lupus erythematosus, polyarteritis nodosa, pemphigus, exfoliative dermatitis, haemolytic anaemia, purpura and sarcoidosis.

IRISH NEWS

Ulster Chemists

MEETING OF ASSOCIATION EXECUTIVE

THE February monthly meeting of the executive committee was held in Belfast on February 1, Mr. W. H. Boyd (president) in the chair. The president referred to letters of sympathy that had been sent by the secretary to Mr. J. C. Acheson, on the death of his mother, and to Mr. R. B. Abernethy on the death of his wife. The sudden death of a member, Mr. James Crilly, was also reported, and the secretary was instructed to convey the sympathy of the meeting to his widow. The following were elected to membership: Messrs. A. McCoy, 9 Ballymoney Street, Ballymena (successor to Mr. J. A. Donaghy); B. McCloskey, Collon Pharmacy, Londonderry (successor to Messrs. Coyle & Quinn); and Mrs. E. R. Cargill, 222 Lisburn Road, Belfast. A number of employees, whose applications were accepted by the Associates' Committee at a previous meeting, were elected to associateship. THE PRESIDENT called upon Mr. J. Caldwell (U.C.A. representative on the Chemists Federation council) to report on the recent C.F. tripartite meeting (see *C. & D.*, February 12, p. 185) which had been attended by the president, the secretary, Messrs. J. Caldwell and H. G. Campbell (chairman of the N.I. C.F. committee), and the following secretaries of the local associations: Messrs. N. A. J. Anderson (Portadown Chemists' Association); B. J. Deeny (East Down Chemists' Association); W. S. Hall (North-east

Antrim Pharmacists' Association); W. F. Mansfield (North-east Ulster Chemists' Association). THE PRESIDENT stated that the committee had investigated complaints that Sanatogen was being advertised as supplied by grocers and had found the complaints to be untrue. A proposed new scale of wages submitted by the Associates' Section was considered and it was recommended that the Joint Council should meet soon. It was agreed that a whist drive in aid of the Northern Ireland Chemists' Benevolent Fund should be held on March 9. The following were appointed to a subcommittee in charge of arrangements:—Misses C. E. Culbert and C. Abernethy and Messrs. W. H. Boyd, J. Caldwell and W. J. Moffett.

Present at the meeting were:—Misses C. R. Abernethy, C. Culbert, Messrs. J. C. Acheson, H. S. Anderson, J. A. Brown, J. Caldwell, H. W. Gamble, O.B.E., T. A. Gibson, C. I. Gordon-Rattie, W. J. Moffett, M. C. Mooney, W. H. Mulholland, R. A. McEwen, W. R. McNabb, J. Paul, C. A. Quinn, A. Steede, and A. Templeton.

1954 Calendar

PHARMACEUTICAL SOCIETY OF IRELAND

THE Calendar of the Pharmaceutical Society of Ireland, 1955, published recently, gives the following statistics of the Society at December 31, 1954 (the figures from the previous Calendar are given in parentheses and relate to December 31, 1953): Pharmaceutical chemists on the register, 2,163 (2,077) members 1,003 (985); life members sixty-four (sixty-five); dispensing chemists and druggists, forty-four (twenty-eight); registered druggists, 223 (275) associate druggists, thirty-nine (forty-two); assistants to pharmaceutical chemists, 1,585 (1,581); and licentiates qualified as medical practitioners, 12 (116). There were fifty-two preliminary registrations in the year ended December 1, 1954 (fifty-five in the year ended September 30, 1953). The seven members of the Council due to retire in October are Messrs. J. Gleeson F. J. Robinson, C. J. Cremen, P. A. Brady, T. B. O'Sullivan, H. P. Corrigan and J. A. O'Rourke.

SCOTTISH NEWS

Doctors' Fines

CHEMIST FAILS TO GET THEM REDUCED

A MOTION by Mr. C. W. Macfarlane, F.P.S., Dundee, that fines of £100 and £50 which Dundee Executive Council had imposed on two doctors for over-prescribing, should be reduced to £25 and £10 respectively, failed to find support at a recent meeting of the Council. Mr. Macfarlane said that in ordinary justice when a man appeared before the committee for the first time he should have a token penalty, or at least not a severe one. He feared that if heavy penalties were imposed, the reaction of the general practitioners would be to restrict their prescribing, and that would have an effect on patients. Dr. A. F. Wood, Dundee, said that, calculated on the average for a particular month, the excess prescribing over a year on one practice alone was £4,000. There were sixteen doctors whose costs were one-third

above the average for the year, but only six were called for interview. In one doctor's case, the average cost for every form he issued was £1 0s. 10d. compared with an average of 7s. 10 $\frac{1}{4}$ d. Mr. R. Lowry West (chairman of the Council) said that the bill for drugs in that area for 1954-55 was £192,000, a net cost of £1 1s. 9d. per head.

Price List for Doctors

REVISED EDITION ISSUED

THE Department of Health for Scotland has issued a revised edition of the booklet "Costs of Some Commonly Prescribed Drugs." The first edition was published in February 1954 (see *C. & D.*, March 6, 1954, p. 226). In the section on proprietaries there are 124 proprietary drugs (compared with 175 in the previous edition) set against named "official" equivalents. Of those, eighty (compared with 104) are more expensive than the equivalents, twenty-one (forty) are cheaper and twenty-three (thirty-one) the same price as their official equivalents. A revised edition of a similar list was published by the Ministry of Health in June 1954 (see *C. & D.*, June 19, 1954, p. 613).

NEWS IN BRIEF

VITAMINS, LTD., held their annual staff dance in Hammersmith, London, on January 21.

MORE than 200 guests were present at a staff dinner and dance held by Genatosan, Ltd., Loughborough, Leics, recently.

A TWO-YEAR grant from counterpart funds derived from U.S. Economic Aid under the Mutual Security Act, 1952, has been made to the British Brush Manufacturers' Research Association, Ltd.

FOR the first time in the United Kingdom, myxomatosis has been confirmed by the Veterinary Laboratory, Weybridge, in the carcase of a mountain hare. It was found in Northern Ireland.

THE two-storey corner section of the chemist's shop of Boots, Ltd., at the corner of Ormskirk Street and Barrow Street, St. Helens, Lancs, collapsed on February 14, injuring three women assistants and five workmen engaged on alterations to the shop front.

AN article published in the *Daily Telegraph* on February 15 on the "crisis" in the State hospital service caused by "shortages of money, premises and staff" states that more than 18,000 beds are out of use for want of doctors and nurses, and that there is a dearth of pharmacists.

MEMBERS of the Standing Pharmaceutical Advisory Committee of the National Health Service in Scotland who have been reappointed by the Secretary of State for Scotland to serve until December 31, 1957, are Messrs. C. Campbell (manager, retail drug department, Scottish Co-operative Wholesale Society, Ltd., Glasgow); J. H. Ramsay (manufacturing chemist, Edinburgh); and H. T. Thomas (retail pharmacist, Kelso (a member of the Pharmaceutical Society's Scottish Department Executive)).

TOPICAL REFLECTIONS

By Xrayser

Quarter of an Acre

"How to raise food on forty rods of ground is what we want to know... Dig it up deeply, or trench it... Lay it in ridges in April or May. When the weeds appear about three inches high, turn the ridges into furrows and bury all the weeds. Do this as often as the weeds get three inches high. About the 26th of August, prepare a rod of your ground, and put some manure in it (for some you must have), and sow one-half of it with Early York cabbage-seed and the other half with Sugar-loaf cabbage seed, both of the true sort, in little drills. As soon as fairly out of the ground, hoe the ground nicely and pretty deeply, and again in a few days. Plant out, and hoe the ground between them often... You must see that the slugs do not eat them... As soon as the plants begin to grow [after winter] dig the ground with a spade, clean and well... If weeds come in the meanwhile, hoe, and let one not live a week." Thus Cobbett in his *Cottage Economy*. How different is the picture presented in the beautifully printed supplement (easily detached and kept for reference) headed "Applied Phytopharmacy" on pp. 171-78. What was tackled in the time of Cobbett as a constant and back-breaking task, is now scientifically dealt with by a variety of modern products which have specific and selective uses. The importance of feeding a growing world population makes it imperative that the maximum yield of good quality crops be obtained. The informative pages give a good picture of the important part the chemical industry is playing against weeds and pests, and emphasise the costly nature of research.

Counting the Cost

Dr. E. K. Woodford, in his article on selective weed-killers, points out that "every month thousands of compounds are run through the biological sieves in the hope that perhaps one in every 300 may prove sufficiently promising for field trials." I was struck with the parallel in the field of medical research described at Bournemouth by Dr. J. Green (p. 162). The price of the successful product must inevitably bear some relation to the overall cost of the laboratory experiments, many of which prove abortive. It is vitally necessary to the progress of medical science that nothing shall be allowed to blunt the inquiring mind, and any move towards economy which restricts experiment would lead to frustration and ultimate stagnation. Consequently, while one realises the need for looking into the costs of products used in the Health Service, it is essential to keep in mind the expense of fundamental and applied research. It is gratifying to note that, in the field of antibiotics, hormones, insulin and vitamins, the Ministry has been able to inform the Comptroller and Auditor-General that the general level of prices is not considered excessive.

Tuberculosis

The concise, yet comprehensive, article on the modern treatment of tuberculosis (p. 179 *et seq.*) is yet another example this week of advances in the battle against disease for which the chemist and the laboratory take great credit. The thesis of Mr. S. J. Hopkins will be of the utmost value to pharmacists, who have difficulty in keeping pace with the rapid march of events. Here is an admirable summary of the chemistry and activity of the many compounds in general use today. But while the advances are important, and early treatment has been facilitated by mass radiography, there remains much to be done in the field of preventive medicine, and one has the feeling that this particular aspect is lagging behind. Our large cities have black spots in housing that must be tackled with vigour. Conditions of over-crowding are still, despite the progress in the building programme, too prevalent. The experts in tuberculosis, aided by the chemists, have done a magnificent job, but treatment with modern drugs and a spell in hospital cannot do everything.

STUDENTS' VACATION WORK

Glasgow discussion on their employment in pharmacies

MAIN subject of the "open discussion" at a recent meeting of the Glasgow and South-western Scottish Branch of the Pharmaceutical Society was the employment of pharmacy students during summer vacations. MR. W. C. CARMICHAEL (chairman of the Branch) said that students had approximately three months' vacation and many were in the habit of taking up work of some kind. It was desirable that for pharmacy students that work should be in pharmacies. Many students never saw the inside of a pharmacy—except as customers—until they served their apprenticeship, which was often done in the shops of multiple firms or in hospitals. Such students were not quite in touch with the retail pharmacist of the present day. It had been suggested that the students could work two months out of their holiday and as those were the months during which pharmacy staff was depleted, pharmacists might be glad to avail themselves of the students' services. The Royal Technical college staff was compiling a list of students who would like holiday employment and where. It was proposed that the Branch should send out a circular to that effect shortly, but if the Branch was going to act in the matter it must give some indication of payment. As a basis of discussion, the committee suggested the following rates:—First year, £3 10s., second year, £4, and third year, £4 10s. That did not mean first, second or third year students but applied to the first year in a job.

Purpose of Holidays

DR. BRUCE said that holidays were intended to refresh students—not for them to work in an enclosed space. They should get out into the fresh air and if they must work find employment on farms, etc. As regards the payment, there were situations available on trams, etc., which would provide £10 a week for students. THE CHAIRMAN said that the scheme was only intended for those students who wanted work in a pharmacy. MR. G. R. MILNE said that a student could make a great deal of money in any job at the present time. He had been discussing the question of apprenticeship with students. The male student, having graduated, had to serve a two-year apprenticeship and then two years' military service. It was a heavy burden on a young man starting out in his career. It might be considered whether the Society should not take into account part-time work in a recognised pharmacy or hospital on a cumulative basis throughout the course, so that the students' apprenticeship might be nearly completed by graduation. There was no doubt that using the students in a pharmacy during vacations was a good plan.

MR. J. D. MAIR said that pharmacists would be employing young men or women nineteen or twenty years old and one could scarcely offer much

less than the figures mentioned. Hundreds of students did all kinds of work during their holiday and the young people themselves did not appear to think they needed three months in which to refresh themselves. Students today appreciated the fact that the college training limited them in experience of a pharmacy and most of them would be glad to go into a pharmacy for a short period to pick up the small amount of information and experience. The pharmacist, however, should realise that the student was working to get through an examination and any work he did at the pharmacy should be helping him to succeed. There were many small tasks which a student could only learn by doing them. Because the student was getting a good deal out of it, a position in a pharmacy could not be compared to work of other kinds.

No Connection with Apprenticeship

THE CHAIRMAN said that the scheme was in no way linked to apprenticeship and if the branch sent out a circular letter to members there would be no recommendations to pharmacists about the kind of work a student should do. If the wage-rate was too high the pharmacist would refuse the student; if too low, the student would not accept the work. Asked how much an unqualified assistant was normally paid, MR. W. T. WILSON (vice-chairman of the Branch) replied that a girl or boy from school at sixteen years would receive approximately £2 5s. per week. MR. ROBERT DONALD added that a person who intended staying with a pharmacist for a period was worth a higher salary than a temporary student. MR. MILNE said that students must not be regarded as quite inexperienced at eighteen. They had theoretical knowledge of pharmacy and they must receive payment for that knowledge. A speaker said that he agreed with the suggestion that students should be able to count part-time work as apprenticeship.

Another speaker said that he had been associated with two schools of pharmacy and he had never thought that the average student benefited from working in a pharmacy during the summer. From the point of view of retail pharmacists, in terms of hard cash, the student was not worth very much. Was the student going to be employed as a general shopworker or as someone there to learn about practical pharmacy? In the former case, he ought to get the rate which was prescribed for such workers of his age. THE CHAIRMAN said pharmacists had a certain responsibility to the young men and women who were their successors, and they should have some say in their training. They should not therefore regard the wage-rate on a strictly economic basis.

MR. WILSON said that a year or so ago students were going round pharmacies individually trying to get employment, mainly because they realised

they required practical experience. They had been unable to find pharmacists to employ them. MR. KERRIGAN said that students were going to be available for at least three successive years for two months each year. They were probably highly intelligent and much more adaptable than ordinary assistants. They would very soon become valuable to the pharmacist, and if it were possible for a retail man to have the same student in successive years, the advantage would be increased. The starting wage was not very large and after some experience the student would no doubt be well worth it. Obviously they could not get as much during their first year as they would get in a different job, but working on the trams they would only receive £8 10s. after five years whereas after two or three years in a pharmacy they would be worth the receipt of a full wage. When the time came for them to serve their apprenticeship they would not be marking time for the first few months.

A speaker said that as a teacher of pharmacy he considered that the third-year degree student who knew nothing at all of dispensing was not of very much use to a pharmacist. Pharmacists could not be persuaded to employ post-graduate apprentices as it was. He did not think there would be much response to an appeal to accept first year students in vacations. THE CHAIRMAN said that once the scheme was started it would be repeated in subsequent years. If the pharmacist once got into the habit of employing a student, especially if he was able to get the same student in succeeding years, he would be pleased to employ him as an apprentice once he had graduated. A TEACHER from the Royal Technical College, Glasgow, said that both the Degree and the Pharmaceutical Chemist students had done a course in dispensing equivalent to the old Chemist and Druggist course.

Students Learn More Readily

THE CHAIRMAN said that he had personal experience of a first-year and a second-year student. Both learned much more readily than the ordinary assistant from school or from the labour exchange. Their minds were active and they were interested in their future. MR. MAIR said that a pharmacist willing to accept a student was certainly willing to pay the rate.

A show of hands was taken on the question of employment of students in vacations and the wage-rates suggested. Both were accepted.

A discussion then took place on the reporting of Scottish affairs in the Society's journal, and MR. MAIR moved that a resolution should be forwarded to the Executive of the Scottish Department for consideration that it was the opinion of the Branch that in each edition of the journal a section should be reserved for the publication of matters on Scottish pharmacy. The resolution was adopted unanimously.

NATIONAL HEALTH SERVICE MATTERS

Hull chemists' discussion

A TALK on National Health Service matters was given to members of the Hull Chemists' Association and Branch of the Pharmaceutical Society at a meeting on January 14, by Mr. J. Wright (assistant secretary, National Pharmaceutical Union). Mr. WRIGHT said that the Central N.H.S. Chemist Contractors Committee had to negotiate with three different departments, the remuneration division which was concerned with dispensing fees, and oncost, etc. the accountant general's department, regarding Drug Tariff basic prices; and the Third Division, concerned with day-to-day administration.

Three Inquiries

The Committee had at present three main inquiries and one minor one. They were on dispensing costs, container allowances, truss and hosiery payments and the farthing per form payment for the prescription levy. Regarding dispensing fees, there were two difficulties to be settled prior to successful completion of negotiations. First, how properly to allocate overhead expenses between the shop and the dispensary and secondly, assuming non-agreement, how to overcome the deadlock that would arise as at present there was no provision for arbitration. Regarding the container allowance 89.5 per cent. response had been obtained to the July survey and that would be helpful in negotiations. Discussions were still proceeding with the Ministry on the most suitable form of inquiry into truss and hosiery payments. The Central N.H.S. Committee would press the claim for remuneration to cover the cost of collecting the shilling levy. On the subject of pricing, Mr. Wright said that difficulties had been encountered with undecipherable signatures in the method of sorting into doctor order. The Ministry of Health had suggested that the chemist should ask the patient the name of the doctor, but that was obviously impracticable as the prescription might be that of a locum doctor unknown to the patient or might be presented by a child messenger. The Ministry had recently allowed an extension of one month to clear stocks of certain proprietaries reduced in price by the manufacturers. The N.P.U. had suggested that the manufacturers should allow credit as with penicillin preparations. Schemes for the disposal of dead stocks between groups of contractors were possible, particularly in concentrated areas, the main difficulty being that the task of collation and distribution of information had to be done by one man. Incomplete penicillin and Schedule 4 prescriptions were not queried until the beginning of 1954, when two strengths of phenylbutazone tablets were made available. Now there was the opposite extreme—the Ministry of Health said that as a Government department it could not countenance any breach of the law. Was the law still right, or was its usefulness outdated with the coming of the National

Health Service? That was a matter that should be pursued by the Poisons Board.

In the discussion that followed, Mr. H. BAYS asked whether the situation as regards rubberless elastic hosiery had altered since the new schedule for elastic hosiery had been published. Mr. WRIGHT replied that rubberless hosiery was not included in the Drug Tariff and would not be paid for.

Mr. E. A. BROCKLEHURST suggested that doctors should be asked to stamp prescriptions as chemists were required to do. Mr. WRIGHT said that the N.P.U. thought that it would be better to stamp code numbers on prescriptions before distribution to the doctors. Mr. G. W. HIND with reference to "doctor sorting" asked whether where a group of doctors were in practice together, the prescriptions need only be sorted into that group. Mr. WRIGHT said that groups and partnerships should be kept together but should preferably be sorted into doctor order within the group. Mr. C. A. HEWITT asked whether price changes could not be altered to contractors after they had been notified by the N.P.U. Mr. WRIGHT said that the Ministry would not agree. The delay in the application of new prices could only be allowed in exceptional circumstances.

Mr. H. BAYS asked whether two dispensing fees were obtainable when

two bottles of a mixture were ordered and Mr. KING asked a similar question on proprietary medicines. Mr. WRIGHT replied that if two bottles of a Drug Tariff mixture were ordered then two dispensing fees would be paid but where "Double Quantity" was ordered one fee would be paid unless more than 40 fl. oz. were ordered. In the case of proprietaries one fee only was paid.

Mr. F. LISTER BOOTH asked whether any container allowance negotiations had taken place during the past six months with reference to the recent increase in prices. Mr. WRIGHT replied that only the previous week negotiations had been taking place with regard to the July survey. No increase had yet been obtained but the case for an increase had been proven.

LOWESTOFT DINNER

Prominent Citizen Pharmacists

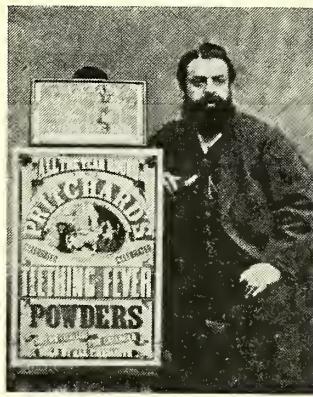
IT was a feather in the cap of the pharmacists of Lowestoft that both the town's mayor (Mr. J. M. Lang) and the deputy mayor (Mr. W. H. B. Sanders) were pharmacists, said Mr. E. C. Corkhill, proposing the toast to "The Borough" at a recent dinner of the Lowestoft and Great Yarmouth Branch of the Pharmaceutical Society. The toast of "The Pharmaceutical Society" was proposed by Dr. A. C. Gee (medical officer of health for Lowestoft) and Mr. D. W. Hudson (a member of the Society's Council) responded. Mr. J. F. H. Price (chairman of the branch) presided.

CHEADLE FIRM'S CENTENARY

Celebration dinner to mark event

TO mark the centenary of Pritchards, Ltd., over 200 employees, ex-employees and guests were entertained to dinner by the directors of the company in Manchester recently. Mrs. F. W. Pritchard (wife of the managing director) presented inscribed gold watches to five senior employees, whose combined service with the firm totals 180 years. Miss E. Wrench, the oldest employee and manageress of the packaging department, presented the directors with an illuminated address on behalf of the staff. A visit to a circus concluded the celebrations.

The firm was founded by Mr. John Pritchard who opened a chemist's shop in Chorlton Road, Manchester, in 1855. He specialised in teething powders. In 1895 a branch shop was opened at Cheadle, Cheshire, and the business soon became devoted to the wholesale trade. In 1908 new works were opened in Bulkeley Road, Cheadle, and those have since become the firm's headquarters. The present directors are Messrs. F. W. Pritchard, John Pritchard and Wilfred Pritchard, the business having remained in the family throughout its existence.



CENTENARY CELEBRATION: The centenary of Pritchards, Ltd., Cheadle, Cheshire, was celebrated recently (see above). Left: The founder of the business, Mr. John Pritchard, shown with a specimen of the company's advertising of last century and right, Mr. Pritchard at the reins of the company's original delivery trap.

IN PARLIAMENT

BY A MEMBER OF THE PRESS GALLERY, HOUSE OF COMMONS

DR. B. STROSS asked the Parliamentary Secretary, Ministry of Works, on February 8 whether he had noted the claims made in Russia recently that 80 or even 90 per cent. successful immunisation against influenza had been achieved by using dried, live vaccine polypeptide A, A1 and B as a nasal spray. MR. J. R. BEVINS replied that similar experiments had taken place at the World Influenza Centre at Mill Hill but they had not produced any demonstrable reaction in volunteers. The Russian report had been "very sketchy."

Tuberculosis Research

MR. J. R. BEVINS (Parliamentary Secretary, Ministry of Works) told MR. K. ROBINSON on February 8 that the total sum expended during the current financial year by the Medical Research Council on tuberculosis research was £47,550, and the average annual sum expended during the previous five years was £32,570. The money that was being spent on tuberculosis research was increasing. He thought that it was fair to say that one did not judge research by the amount of money spent on it, but by the results achieved. He thought that there the Government had a fair record. A large proportion of the money was being spent on research into new drugs.

Price Maintenance

MR. W. W. HAMILTON asked the President of the Board of Trade on February 8 when he intended to introduce legislation to make it obligatory on any organisation of manufacturers which regulated prices and conditions of sales of its commodities to publish its rulings fully. MR. H. STRAUSS (Parliamentary Secretary, Board of Trade): The Minister will consider any recommendation which the Monopolies Commission may make in its report on certain restrictive practices; but he cannot anticipate future legislation.

Exports to China

MR. A. R. W. LOW (Minister of State, Board of Trade) told MR. R. W. SORENSEN, in a written answer on February 8, that exports to China had increased steadily from £2.7 millions in 1951 to £6.8 millions in 1954. Imports had also increased, although the trend had been irregular. They amounted to £9 millions last year.

Hospital Pharmacy Recruitment

MR. A. BLENKINSOP asked the Minister of Health what action he proposed to take to increase the recruitment of hospital pharmacists in view of the recommendations of the Linstead report. MR. MACLEOD (Minister of Health) in a written answer on February 9 said that the shortage of pharmacists was not peculiar to hospitals. He was considering what could be done to solve the problem in hospitals in the light of information he had recently obtained from them. A salary claim for hospital

pharmacists was at present under consideration by the appropriate Whitley Council.

Prescription Statistics

MR. IAIN MACLEOD (Minister of Health) told MR. A. BLENKINSOP in a written answer on February 9 that in England and Wales the number of prescriptions issued and the average cost per prescription in October, November and December 1953 were 19,199,466 (47.02d.), 18,512,492 (47.47d.) and 18,491,706 (48.94d.), respectively. For 1954 the figures for October and November were 18,826,106 (50.72d.) and 19,785,862 (51.14d.), respectively.

Hospital Building Programme

MR. IAIN MACLEOD (Minister of Health) announced on February 9, the Government's plans for increasing the rate of hospital building in England and Wales. It was proposed in 1956-57 and 1957-58 to start major new building projects to total values of £7½ millions and £10 millions respectively. For the plant replacement and redeployment programme £2 millions would be available in the first of those years and £4 millions in the second. There would also be £9 millions in 1956-57 and £10 millions in 1957-58 for capital expenditure on other works. The plans included new general hospitals, or the first stages thereof, for Welwyn, West Cumberland, West Cornwall, Harlow, and Swindon; the development of the Glangwili Hospital, Carmarthen; a new mental hospital near Wolverhampton; major extensions at mental deficiency hospitals in the Newcastle, Sheffield, and Liverpool regions and in Wales; new out-patient departments at the Royal Victoria Infirmary, Newcastle, the Leeds General Infirmary, and the Lewisham and North Middlesex Hospitals; a new block at St. James's Hospital, Balham, and major extensions to the Peterborough Memorial Hospital. Examples of the type of project he had in mind to start within the next few years were the new Cardiff teaching hospital, the rebuilding of Charing Cross Hospital at Harrow, a new ward block at Guy's, new general hospitals at Slough, Boston in Lincolnshire, Coventry, and Sheffield, and new mental hospitals in Lancashire and Yorkshire. The new Cardiff project retained its position as first priority in England and Wales for a complete new teaching hospital.

A similar programme for Scotland announced by COMMANDER T. D. GALBRAITH (Parliamentary Under-Secretary of State) projected an increase in the total provision for hospital building from the level of £1,900,000 for this year and next to £2,200,000 in 1956-57 and £2,500,000 in 1957-58. In 1955-56 a start would be made on a new maternity hospital at Bellshill, Lanarkshire, and a new surgical block at Kirkcaldy and the reconstruction of a mental hospital in Dundee. Among the projects to be considered were a new treatment unit at Glasgow Western Infirmary, reconstruction of

the Edinburgh Royal Mental Hospital and improvement of hospital facilities in Shetland. Planning would be put in hand for other schemes to start in 1958-59 and succeeding years, including the provision of a new teaching hospital in Dundee.

Purchase Tax Anomalies

MRS. JEAN MANN asked the Chancellor of the Exchequer on February 10 why hairgrips were taxed at 25 per cent. while hair curlers were taxed at 75 per cent.; and why tooth-brushes were free of tax and nail-brushes were not. MR. H. BROOKE (Financial Secretary to the Treasury) said that articles could not always be brought within the same tax category simply because they were to some extent comparable. He would bear in mind those mentioned when the tax was again under review.

Colourings in Food

DR. A. D. D. BROUGHTON asked the Minister of Food on February 14 if he had not powers to prevent the use of coal tar derivatives in food under the Food and Drugs (Amendment) Act, 1954. DR. CHARLES HILL (Parliamentary Secretary, Ministry of Food): It is true that the Food Standards Committee proposes a radical change (see *C. & D.*, January 8, p. 31). At the moment certain colouring matters are prohibited. The change the Committee proposes is for the preparation of an approved list of substances which may properly be added to food. It is proper that the Minister, having received the report of the Committee, should await the comments of interested bodies—which have until March 31 to make those comments—before he reaches a final decision.

Analgesia in Childbirth

MR. R. W. SORENSEN asked the Minister of Health to what extent the use of analgesia was now customary with confinements in hospitals. MR. IAIN MACLEOD (Minister of Health) in a written reply on February 14 said that no special information was available about use in hospitals. The most recent development was the use of trichlorethylene which could now be administered by midwives in accordance with rules just made by the Central Midwives' Board.

Collective Trade Agreements

MR. G. DARLING asked the President of the Board of Trade on February 15 if he would provide for the compulsory registration of all trade agreements covering price-fixing, allocation of quotas or contracts, and collective decisions on new inventions, and to require the regular publication of activities resulting from such agreements. MR. H. STRAUSS (Parliamentary Secretary, Board of Trade): The House will be well advised to await the report of the Monopolies Commission on exclusive dealing and collective boycott, which is expected this summer, before deciding what legislation should be introduced.

COMPANY NEWS

Previous year's figures in parentheses

UNITED GLASS BOTTLE MANUFACTURERS, LTD.—The company announces that its offer to acquire the minority shareholdings in its subsidiary company, Kork-N-Seal, has been accepted by the required majority.

BEECHAM GROUP, LTD.—A second interim dividend of 10 per cent. on ordinary shares is declared.

DISTILLERS CO., LTD.—Dr. H. M. Stanley, M.Sc., was recently appointed controller of research and development.

HICKSON & WELCH (HOLDINGS), LTD.—The company have fixed the price of their rights issue of 300,000 ordinary 10s. shares at 15s. 6d. a share. Subject to shareholders approving the increase in capital at a meeting on February 18, letters of rights will be dispatched that evening.

SCHWEPPES, LTD.—Subject to completion of contract, the company are to purchase the Apollinaris Co., Ltd., partly for an undisclosed amount of cash and partly by an issue of Schweppes ordinary shares. Previous negotiations were broken off (in December 1953) until such time as negotiations as to the grant of a clear title and trade marks of the Apollinaris spring water could be cleared by the vendor company with the German authorities, etc.

LEGAL REPORT

Tax Fines Remitted

FINES of over £7,000 imposed on a former wholesaler in toilet preparations and proprietary medicines for purchase tax offences are to be remitted, by order of the Old Street, London, magistrate. The money—said to represent purchase tax evaded—may be the subject of recovery proceedings in a civil court. John Arthur Taylor, Wellington Avenue, Westcliff-on-Sea, was appearing at the Court on February 14 on an adjourned means inquiry summons. For the Customs and Excise Authorities it was stated that the sum of £345 had been paid out of a total fine of £7,473 imposed on July 14, 1954. The Commissioners "in view of the defendant's position and the fact that that fine did include what was then known to be the bulk of the tax evaded," were exercising their statutory powers to mitigate the fine. They had in mind the figure of £345 which defendant had already paid. Bearing in mind the magistrate's expression at the time the penalties were imposed that the fine should be £300 more than the tax involved, the Commissioners signified in court their agreement to mitigation if the magistrate was willing. "I have been instructed," said the Commissioners' representative, "to safeguard the tax position because now the tax becomes a matter for civil recovery. This defendant has now apparently gone into liquidation. He has told us in complete frankness and honesty that his business has gone and that his present stock may fetch £1,000. Even that is somewhat doubtful." The magi-

strate agreed. The position was declared to be "a little complicated." Shortly after the prosecution, it appeared, Mr. Taylor had formed his concern into a limited company and, with the permission of the Commissioners, had transferred his registration certificate to the company. The result was that all the assets belonged to the company. "We have no call on those assets at all. Our only remedy is to proceed in the civil courts against Mr. Taylor." Taylor, in evidence, said he was now running a small hardware shop for a friend. He was making £6-7 a week and had no other means. The magistrate said that, so far as the court was concerned, the matter was adjourned *sine die*. So soon as the court heard from the Customs that the remission had been granted, it would be completely wiped off the books of the court. Mr. Taylor was left in the hands of the Customs so far as any civil court was concerned.

PERSONALITIES

DR. W. F. J. CUTHBERTSON (head of the biochemistry unit, Research Division, Glaxo Laboratories, Ltd.) has accepted an invitation from University College, Ibadan, Nigeria, to be a visiting lecturer teaching biochemistry to medical students in the last term of their pre-clinical studies. He will be there during the spring term of 1955.

DR. H. M. STANLEY, M.Sc., newly appointed controller of research and development of the Distillers Co., Ltd., will shortly complete twenty-five years of research with the company. A graduate of Birmingham University, he is known particularly for his investigations into the production of petroleum derivatives and the economics of their application in the chemical and plastics fields.

MR. G. L. HELLENS, M.P.S., Plymouth, was recently ordained and is now curate at Tavistock, Devon, Parish Church. Mr. Hellens qualified as a chemist and druggist in 1926, and was in business in London and Bristol before going to Plymouth in 1929, where he built up a retail and wholesale business. He has held office in the Plymouth Branch of the Pharmaceutical Society and is a governor of St. Dunstan's Abbey School. On giving up his business he attended the Worcester Ordination Training College.

MR. T. D. MACKINNON, M.P.S., Milngavie, Glasgow, who sailed from

Liverpool, on February 12, as a member of the Kanchenjunga expedition, 1955, which is sponsored by the Royal Geographical Society and the Alpine Club, is in business as a pharmacist in Glasgow. He has been climbing mountains since he was at school. He is a member of the Scottish Mountaineering Club and of the Alpine Club, spends most of his free weekends in the Scottish hills and climbs abroad in the holidays. In winter he skis as well. He has climbed a great deal in the Alps and a little in Norway and Austria, and in the Lakes and Wales. This is his third visit to the Himalayas. He was a member of the first Scottish Himalayan expedition in 1950 and of the Scottish Nepal expedition, 1952.

MARRIAGE

GRAHAM—MOORE.—At the Presbyterian Church, Salisbury, S. Rhodesia, on January 26, Leslie Graham, M.P.S., c/o G. Pelletier (S.R.) (Put.), Ltd., P.O. Box 1270, Salisbury, S. Rhodesia, to Gwen Moore. Mr. Graham is the elder son of Mr. David Graham, M.P.S., Prestwick, Ayrshire.

DEATHS

ANGUS.—Recently, Mrs. Nellie Laing Angus, M.P.S., P.O. Box 65, Dunnottar, Transvaal, South Africa. Mrs. Angus qualified in 1917.

BADGETT.—On January 29, Mr. Thomas John Badgett, M.P.S., 190 London Road, Twickenham, Middlesex. Mr. Badgett qualified in 1906.

HOGARTH.—At her home in Calgary, Alberta, Canada, on February 3, Mrs. Catherine Hogarth. Mrs. Hogarth was the youngest sister of Miss A. T. Borrowman, F.P.S., 17 The Pavement, Clapham, London, S.W.4.

LAWRENCE.—On January 31, Mr. Frank Lawrence, M.P.S., 9 Coach Lane, Redruth, Cornwall, aged seventy-seven.

ROBINSON.—On January 17, Mr. Ernest Temple Robinson, M.P.S., 42A Victoria Road North, Southsea, Hants, aged eighty-one.

SANDERSON.—On January 28, Mr. William Ewart Sanderson, M.P.S., 29 Ramshill Road, Scarborough, Yorks, aged sixty-nine.

WINTON.—On February 6, Mr. Henry Michael Winton, M.P.S., The Pharmacy, High Street, Elstree, Herts. Mr. Winton qualified in 1905. He is survived by his widow and a son.



EUROPEAN EXECUTIVES VISIT AMERICA: The four senior executives of Parke, Davis & Co., pictured above, recently returned from a world sales conference at the head office of the company in Detroit. They are Dr. Nowotny (field manager for the Mediterranean Area), Mr. L. R. Russell (manager of the Belgian Branch), Mr. K. S. Sales (liaison executive for the European Branch), and Mr. K. V. Berkeley (field manager for Sweden).

BUSINESS CHANGES

JAMES KEANE, L.P.S.I., has opened a pharmacy at Rooskey, Co. Roscommon, Eire.

MR. P. J. BUTLER, L.P.S.I., has purchased Fleming's Pharmacy, Church Street, Athlone, Eire.

THE telephone number of Lofthouse & Saltmer, Ltd., Leonard Street, Hull, has been changed to Hull 35981.

MR. ROBERT COSTIGAN, L.P.S.I., has acquired D'Arcy's Pharmacy, 52 Main Street, Tipperary, Eire.

GEIGY PHARMACEUTICAL CO., LTD., is the new title adopted by Pharmaceutical Laboratories Geigy, Ltd., Middleton, Manchester, as from February 8.

I. R. MAXWELL & CO., LTD., is the new title adopted by Lange, Maxwell & Springer, Ltd., scientific and technical booksellers, 242 Marylebone Road, London, N.W.1.

MR. R. W. CHAMP (London and Southern England representative of Alf Harrison & Sons, Ltd., Leeds) has removed to 5A The Rookery, Westcott, Dorking, Surrey (telephone: Westcott 3172).

MR. F. A. NOBLE, M.P.S. (trading as P. Davidson), 342 Kilburn High Road, London, N.W.6, has sold his business to Mr. J. G. Norton, 38 High Street, Hounslow. Mr. Norton is to take over on March 1.

Appointments

BRITISH FILTERS, LTD., Maidenhead, Berks, have appointed Mr. F. D. Murray to the newly created post of general sales manager.

DELAVELLE SALES, LTD., London, have appointed Mr. N. Denton, Flat Two, 2 Thornfield Road, West Park, Leeds 6, their representative for the East and West Ridings of Yorkshire.

AYRTON, SAUNDERS & CO., LTD., 34 Hanover Street, Liverpool, 1, have appointed Mr. N. D. H. Shipley, M.P.S., A.M.I.Ex., their export manager. Succeeding Mr. Shipley as manager of the drug sales department, the company has appointed Mr. T. B. Kent-Jones, M.P.S. Mr. J. F. Price has been appointed representative in the North-eastern territory, centred on Newcastle, in succession to Mr. Sasbry who has resigned.

MONSANTO CHEMICALS, LTD., 8 Waterloo Place, London, S.W.1, have made the following appointments:—Dr. W. A. Hayward (works manager at the Ruabon factory) to be assistant to the managing director, Mr. Philip A. Singleton. His appointment is a preliminary to assuming, with their American associates, Monsanto Chemical Co., world-wide responsibilities as technical liaison officer for Monsanto Chemicals, Ltd., and Monsanto Chemicals (Australia), Ltd. He will establish his headquarters in St. Louis, U.S.A., in September 1955 after visiting Australia and New Zealand. Mr. E. V. Weekes (formerly area manager at the Ruabon factory) is appointed works manager in succession to Dr. W. A. Hayward.

INSTRUMENTS AND APPARATUS

Radioisotope Counter Head.—For taking counts when using radioactive isotopes medically for diagnostic or therapeutic purposes, or in routine investigations and general monitoring, Isotope Developments, Ltd., Benham

volumes as low as 0.5 mils (maximum capacity is 5 mils). The dimensions and flow rate are such that the temperature of the sample never rises above 30°. The permeable membrane is a viscose bottle seal of standard size and shape, readily attached and replaced.

An Aid to Spectrochemical Analysis.

—For full speed and accuracy in direct-reading methods of spectrochemical analysis, rapid insertion of electrodes in correct alignment is essential, together with adequate screening to prevent interference with the electronic measuring gear. The Hilger division of Hilger & Watts, Ltd., 98 St. Pancras Way, London, N.W.1, have produced a routine arc and spark stand to meet those requirements. After initial setting the alignment is maintained for long periods without the need for attention.

TRADE NOTES

Stocktaking.—James L. Hatrick & Co. (London), Ltd., 58 Britton Street, London, E.C.1, are closing for stock-taking on Thursday and Friday February 24 and 25.

Now Tax-free.—Rona Laboratories (John Smythe (London), Ltd.), 12 Molyneux Street, London, W.1, announce that their speciality Etophylate is now exempt from purchase tax.

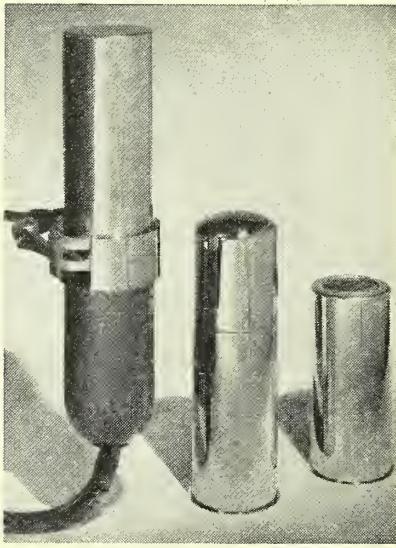
Toilet Sundries.—Pifco, Ltd., Watling Street, Manchester, 4, are manufacturers of the Pifco electric shaver, hair dryer and vibratory massager, three specialities with a wide popular appeal.

Health Lamps.—Barber Electrical Services, Ltd., Birmingham, 16, draw attention to their Health Master combined ultra violet and infra-red luminous heat lamp and range of infra-red/luminous heat lamps.

Distributors in Britain.—British Schering, Ltd., 229 Kensington High Street, London, W.8, sole distributors in the United Kingdom for the ethical speciality products manufactured by Schering, A.G., Berlin, Germany, announce the availability of Urografin, a new product for intravenous urography. Urografin is an aqueous solution of the sodium and methyl-glucamine salts of 3,5-diacylaminobenzoic acid in the ratio 10:66 w/v per cent.

Trade Names Adopted.—Roussel Laboratories, Ltd., 847 Harrow Road, London, N.W.10, have given the trade names Cortisyl and Hydrocortisyl to their cortisone and hydrocortisone preparations. Both products are now freely available to hospitals as follows:—Cortisyl (cortisone acetate) eye drops, 1 per cent. in 3-c.c. vial and ointment, 1 per cent. in 3-gm. tube; Hydrocortisyl (hydrocortisone acetate) eye drops, 1 per cent. in 3-c.c. vial and ointment, 2.5 per cent. in 3-gm. tube; injection (local), 25 mgm. per c.c. in 1-c.c. and 5-c.c. vials; and skin ointment, 1 per cent. in 5-gm. and 15-gm. and 2.5 per cent in 5-gm. and 15-gm. tubes.

Amino-acid Hair Tonic.—A hair tonic containing various amino-acid derivatives and claimed to have a beneficial effect on the hair is issued under the name Andfra by Taylor Ree-



Grange, Aldermaston Wharf, nr. Reading, Berks, offer a compact, light and versatile instrument, the I.D.L. scintillation counter head. It is designed for use with a wide range of phosphors in work connected with alpha, beta and gamma rays, protons, neutrons and x-rays. It has been well adapted to exacting research in gamma-ray spectrometry. With its simple, quickly interchangeable light-tight caps, it is suitable for adaptation to scintillation counting techniques with liquids. The unit is built in two sections. The upper section (the detector unit) contains voltage divider chain, photomultiplier tube and phosphor, the whole covered by an interchangeable light-tight cap. The lower section contains the cathode follower unit.

Electric "Desalting" Apparatus.—There was demonstrated recently at a discussion on "Paper Electrophoresis and Chromatography" to the fine chemicals group of the Society of Chemical Industry (see *C. & D.*, December 4, 1954, p. 564) a "desalting" apparatus. An important preliminary to paper chromatographic examinations for organic solutes is "desalting" (the removal from the solution of inorganic cations and anions). Inorganic ions are usually present in biological systems (urines, plant extracts, etc.), or they may arise from chemical manipulations (as in protein hydrolysis). Unless the major portion of those ions is removed, paper chromatograms run erratically, and required components are obscured, distorted or displaced. Desalting is conveniently carried out electrolytically with a flowing mercury cathode and a flowing acid anode separated from the sample by an ion-permeable membrane. A suitable apparatus is offered by Aimer Products, Ltd., 56 Rochester Place, London, S.W.1. The electrolytic chamber is small enough to deal with

on Laboratories, Ltd., 23 Penn Street, London, N.1. Show matter is available.

Change of Name.—Menley & James, Ltd., Coldharbour Lane, London, S.E.5, announce that Furacin soluble dressing has been retitled Furacin soluble ointment, and that Furacin ear solution has been renamed Furacin ear drops. Other Furacin preparations remain as before.

Factory Extension.—Thompson & Capper Wholesale, Ltd., Speke Hall Road, Liverpool, 19, are in the process of having extensions made to their factory. The extensions, made necessary by expanding business, will give extra space at a cost of £25,000. They will make it possible for the company to take on an increasing volume of tabletting work.

Stocks Replaced.—John Steedman & Co., 272 Walworth Road, London, S.E.17, ask chemists to ensure that they have no stocks of Steedman's powders containing hydrarg. subchlor. Any such stocks held should be returned immediately to the company, who will replace them free of charge with powders made to the new formula from which mercury is absent. Postage will also be refunded.

Bonus Offers

SMITH & NEPHEW, LTD.: Lil-lets tampon. Introductory offer of twenty-four packets (each of ten tampons) for price of twenty.



BENGER'S, LTD.: Bonus offer (choice of three parcels for fourteen days' display) closes February 28. Show material is available as illustrated.

Trade Displays

SPRING displays of their products and supplies has been arranged as under by Ayrton, Saunders & Co., Ltd., Hanover Street, Liverpool, 1.

ISLE OF MAN: Falcon hotel, Douglas, February 14-18.

BLACKPOOL: Palatine hotel, February 28 to March 4.

RHYL: Marine hydro, March 15-17.

LLANDUDNO: North-western hotel, March 22-29.

THE Halex division of British Xylonite Co., Ltd., Highams Park, London, E.4, are staging a series of provincial displays at which the Halex range of brushes, toilet ware and fancy goods is being shown. The fixtures are:—

DUNDEE: Mathers' hotel, February 28 to March 3 (representative: Mr. D. R. Wren).

ABERDEEN: Douglas hotel, March 7-10 (representative: Mr. D. R. Wren).

CARLISLE: Crown and Mitre hotel, March 14-16 (representative: Mr. A. R. Waring).

LIVERPOOL: Stork hotel, March 28-31 (representative: Mr. A. R. Waring).

LEEDS: Hotel Metropole, February 28 to March 4 (representative: Mr. R.

Bembrey).

HULL: Royal Station hotel, March 28-30 (representative: Mr. R. Bembrey).

NORWICH: Royal hotel, week beginning February 21 (representative: Mr. G. Beck).

SKEGNESS: Lumley hotel, week beginning March 7 (representative: Mr. G. Beck).

BIRMINGHAM: Grand hotel, February 28 to March 4 (representative: Mr. J. W. Elliott).

NEW PRODUCTS AND PACKS

Retail Pack.—Kumar (London), Ltd., 91 Belmont Hill, London, S.E.13, have made available a retail pack, in catch cover, of their Ascum tablets (see *C. & D.*, January 15, p. 60).

Cetrimide Shampoo.—Seboderm shampoo, a new speciality of Priory Laboratories, Ltd., Pyramid Works, West Drayton, Middlesex, contains cetrimide, B.P., the quaternary ammonium compound recognised as effective in the treatment of dandruff, seborrhoeic dermatitis and similar scalp complaints.

Oral Hypotensive.—Eli Lilly & Co., Ltd., Basingstoke, Hants, have introduced a new speciality, Sandril brand reserpine, for the treatment of mild hypertension. Reserpine is accepted as the most potent of the fifteen alkaloids of *Rauwolfia serpentina*. Sandril is claimed to have minimal side-effects. It is issued in bottles of thirty, 100 and 1,000 0.25-mgm. tablets.

Vitamin A and D Pearls.—The fine chemical and pharmaceutical division of L.P.C. Chemicals and Dyes, Ltd., 37 Fenchurch Street, London, E.C.3, are sole importers and distributors for Danad vitamin A and D pearls, manu-

factured by Chr. Emborg A/S, Copenhagen, Denmark. A "basic pack" (seven 100-size and twelve 25-size) is available on thirty days' sale-or-return terms.

An Additional Strained Food.—Trufood, Ltd., Green Bank, London, E.1, are adding a sixth meat variety to their Spoonfoods range of strained and homogenised baby foods. The addition is a *purée* of chicken and lentils that also contains potatoes, onions, wheat flour, butter and seasoning. It is obtainable through the company's representatives or from the Creameries, Wrenbury, Ches.

Suxamethonium in Solution.—Pharmaceutical Specialities (May & Baker), Ltd., Dagenham, announce a new presentation of Brevidil M: a solution of suxamethonium chloride in 2-c.c. ampoules and 10-c.c. multi-dose container. The new preparation is made available to meet the requests of those anaesthetists who prefer to use a ready-prepared solution of this muscle relaxant. Each ampoule contains 100 mgm. (80 mgm. of cation) and the packs are boxes of ten and fifty. Each c.c. of the multi-dose-container solution contains 50 mgm.



Introductory counter display unit and standard display pack for Lil-lets tampon.

1953-54 by Smith & Nephew Research, Ltd., with the co-operation of hospitals, industrial health centres and private users. Results showed that the tampons absorbed almost ten times their own weight in moisture. Lil-lets are sold at a popular price in a hygienic pack that dispenses with a cardboard applicator. Five Lil-lets occupy approximately the size of a packet of ten cigarettes; one of the tampons takes up less room than an average-size lipstick.

Sheep-marking Fluid.—Imperial Chemical (Pharmaceuticals), Ltd., Wilmslow, Manchester, announce that they are now the sole distributors in Great Britain and Northern Ireland for Bradford sheep-marking fluid. The fluid is manufactured by the City of Bradford by-products department, Shipley, Yorks, and is available in four strong colours: red, blue, green and black. The fluid can be obtained in either of two consistencies: thick or medium.

ESSENTIAL OILS

Annual report by London importers

REPORTING on the work of the Essential Oil Importers' section of the London Chamber of Commerce over the past year, the chairman (Mr. C. F. Bush) said at the annual meeting on February 10 that the section did not intend to press their claim for a drawback order for re-exports of duty-paid essential oils (*C. & D.*, December 5, 1953, p. 554). That was because complicated statistical information was needed to support an application for drawback, the volume of export trade in duty-paid oils was relatively small and facilities existed for repacking and refiltering oils in bond.

The Section had raised no objection to proposals for the duty-free import into Australia of sassafras oil which, so far as was known, was not produced in any part of the British Commonwealth. It had opposed a similar proposal relating to Madagascar clove oil because clove oil was available within the British Commonwealth (Zanzibar) and was also distilled in the United Kingdom. It had recently been learned that the South African Authorities were considering imposing an import duty of 25 per cent. on citrus oils. The Section had not raised any objection to that proposal but had suggested that it would be to South Africa's own advantage to specify the particular citrus oils on which a duty was considered necessary.

SCOTTISH DEPARTMENT EXECUTIVE

Plans for an annual dinner

A MEETING of the Executive of the Scottish Department of the Pharmaceutical Society was held in Edinburgh on January 19, Mr. S. Hughan in the chair. It was decided to pursue further the matter of an annual dinner of the Executive, the Scottish Pharmaceutical Federation and the Pharmaceutical Standing Committee. If a joint function could not be arranged, it was resolved that the Executive should hold an annual dinner. It was announced that Mr. J. Ross had been appointed deputy invigilator. It was resolved that on the receipt by the resident secretary of lists of schools, headmasters and careers masters in the Dundee area from the Scottish Education Department, he should circulate the headmasters and careers masters, enclosing a copy of "How to Become a Pharmacist," a leaflet on regulations and a covering letter. It was reported that Miss Cordery, senior member of the office staff, had recently resigned in view of her approaching marriage. Members of the Executive of the Scottish Department, the Board of Examiners and the Standing Committee, and others had contributed to presenting Miss Cordery with a silver tea service as a mark of appreciation for her long and valued services to the Society in Scotland. Miss Cordery was also presented with a gift from the members of the staff. The Executive discussed a suggestion from Miss E. M. Jenkins for a title for the subject for discussion at the annual meeting in Edinburgh, namely, "A Suitable Edu-

Negotiations had taken place with H.M. Customs and Excise concerning a ruling that, whereas petitgrain oil was exempt from duty, a charge of 10 per cent. was payable on petitgrain citronnier, petitgrain bergamot and petitgrain mandarin. The section had submitted that, since no qualification was attached to the provision for the duty-free import of petitgrain oil, no distinction should be drawn between the various types. The Customs on the other hand asserted that the oils in question were separate and distinct articles of commerce differing from each other in composition and that they were not dealt with in the trade under the unqualified description of petitgrain. The Customs were, however, prepared to consider any contrary evidence of trade practice and the matter was receiving the further attention of the executive committee.

The Customs had agreed to a request made by the section that tins opened and resoldered by them for sampling and testing purposes should bear an official seal. The guarantee of quality given in some cases by suppliers had been nullified because there was no proof that the tins had, in fact, been opened by Customs.

Mr. C. F. Bush and Mr. J. R. A. Evans were unanimously re-elected Chairman and Deputy-Chairman respectively for the ensuing year.

for in each issue of the publication, but that the Scottish Executive would try to ensure that Scottish National Health Service affairs and matters relating to Scottish pharmacy would get adequate notice in the Society's journal, and would be clearly marked "Scottish." It was reported that, since last meeting, fifty students had been registered in Scotland, making a total for 1954 of 103. It was reported that two books had been received from Mr. A. J. Grant, Elgin, one a local prescription book, dated 1895-99, and the other the London Pharmacopoeia, dated 1720. The RESIDENT SECRETARY read a letter which had been received from the president, in which he expressed pleasure in having visited the Scottish Department and attended the meeting of the Executive, and seen the new laboratories. He thanked the chairman and all the members for having made his stay in Edinburgh so enjoyable, and wished the best of good fortune in the future to the Scottish Department.

STATUTORY COMMITTEE

Cases considered in 1954

TWENTY-EIGHT cases were considered by the Statutory Committee of the Pharmaceutical Society during 1954, according to the Committee's recently issued report. The highest number of cases considered was forty-nine, in 1951, while the average of the past ten years was thirty-seven. The cases fall under two headings, those which followed upon convictions in the courts and those which had not been the subject of prosecution.

There were twenty-two reports of convictions, of which eleven resulted from prosecutions under the Pharmacy and Poisons Acts and the Penicillin Act, and four in connection with Dangerous Drugs offences. In only one of those fifteen cases was it considered necessary to hold a public inquiry. Warnings were sent to four corporate bodies and to four private pharmacists, three of the latter being warned for failure to make registered entries for Dangerous Drugs supplied on prescriptions. Final warnings were issued to one corporate body and to one private pharmacist, following earlier warnings for Pharmacy Act offences. Severe warnings were considered necessary in four cases, one following conviction for sales of poisons at branch shops without qualified supervision, one for sales of dispensed medicines in the absence of a pharmacist, one for an offence under the Penicillin Act by a pharmacist who had previously been the subject of disciplinary action, and one where Dangerous Drugs had been supplied to a medical practitioner without records being made in the Dangerous Drugs register.

Of the remaining seven convictions, two led to inquiries, in three cases no action was taken and the other two, one concerned with driving a car whilst under the influence of drink and one for a breach of the peace, were considered to require some explanation of the conduct. After such explanation the pharmacists were warned in each case with an intimation that the con-

Concern at Examination Results

The RESIDENT SECRETARY reported on the results of the December 1954-January 1955 examinations. Concern was felt at the number of failures in the Intermediate examination compared with last year. In answer to a question by MR. GROSSET, THE SECRETARY said that two candidates who had very poor marks had been recommended for a further course of instruction. The low percentage of passes in the Qualifying examination from second entries was also noted.

In connection with a resolution from the Glasgow Branch that in each edition of the Society's journal a section should be reserved for publication of matters relating to Scottish Pharmacy, it was decided to advise the Glasgow Branch that space could not be asked

victions and circumstances might, locally, reflect adversely upon the pharmaceutical calling.

Of the three public inquiries arising from convictions, one concerned a series of offences of the supplying by the registered superintendent of a corporate body of Fourth Schedule poisons without prescriptions. The pharmacist was severely censured and warned on his future conduct. The second related to the purchase of stolen goods. A decision in that case was postponed for twelve months. The third was concerned with defrauding an Executive Council under the National Health Service, and resulted in the removal of the name of the pharmacist from the Register.

Six reports were received of cases other than convictions, two of which were concerned with advertising. In

one case a registered superintendent was cautioned for advertising the opening of a new pharmacy, with a free gift offer. No action was taken in the second case, on an undertaking to discontinue advertising qualifications and medicines by means of a sandwich board outside the premises. One case arose from information received from an Executive Council where incorrect dispensing was alleged. No action was considered necessary. The three remaining cases were the subject of public inquiries and were concerned with the conduct of a pharmacist whilst acting as locum tenens. In two of the cases complaint was made that the pharmacist was under the influence of drink and drugs whilst in charge of a pharmacy. A direction for the removal of the name of the pharmacist from the Register was given in one

case, whilst a decision was postponed for three months for a medical report in the second. The third case resulted in the removal of the name from the Register, following certain unsatisfactory monetary transactions including the drawing of a cheque subsequently dishonoured.

In a case where the pharmacist had been found guilty in 1953 of misconduct whilst acting as a locum, but a decision had been postponed for twelve months for reports of satisfactory conduct, it was necessary to adjourn the case for a further year in the absence of satisfactory reports. That case was due for reconsideration in 1955.

There were three applications for restoration to the Register, two of which were granted, one being adjourned for twelve months.

BRANCH AND ASSOCIATION

EDINBURGH

Talk on Beauty Care

ADVICE on the use of cosmetics and the application of make-up was given to the Edinburgh Branch of the National Association of Women Pharmacists at their meeting on February 8 by MRS. NORA RIDDELL, a Bond Street, London, beauty specialist. Mrs. Riddell gave a make-up demonstration, using Miss O. W. Scarlett (president of the Branch) as her subject.

SOUTH SHIELDS

Concern over Apprentices

CONCERN was expressed by MR. T. HESELTINE (immediate past-president of the Pharmaceutical Society) speaking at a recent meeting of the South Shields Pharmacists' Association over the fact that private pharmacy nowadays secured the services of only ten per cent. of apprentices. Mr. Heseltine also mentioned the heavy financial burden faced by the Society's Publication Committee, the work of the Ethical Committee, and the valuable help given by the various Benevolent Funds of the Society, and emphasised that the Statutory Committee was not, as was often believed, composed solely of members of the Society. Speaking on National Pharmaceutical Union matters, Mr. Heseltine said that the clearing house, the Chemists' Mutual Insurance Co., Ltd., and the checking bureau, were all organisations invaluable to the pharmacist, as was the Chemists Federation. He said that full use was made of the Chemists' Defence Association, Ltd., and advice bureau of the N.P.U.

WEST HAM

Colour Photography

A COMBINED meeting of the West Ham Association of Pharmacists and the East Metropolitan Branch of the Pharmaceutical Society, held recently, was addressed by Mr. Allen Aldington (a former chairman of the Photographic Dealers' Association) on the subject of colour photography. MR. ALDINGTON briefly outlined the history of colour photography and mentioned the special advantages and differences of the various processes on the market.

He gave technical details and comparative costs of each process and what it could reasonably be expected to yield to the average intelligent amateur. He emphasised that the pharmacist, by his training and general knowledge, was the person most capable of handling the problems of colour photography, and that he should not be apologetic in claiming that position. The best way to "sell" colour photography was undoubtedly to practise it and to have specimens of your own work on the counter available for inspection. He said that colour film should not be sold unless the camera had an aperture of at least 6.3 and the customer knew sufficient to ensure intelligent handling of the film. A failure might prejudice the customer against colour for years.

ROMFORD

Use of Drugs in Psychiatry

THERE had been no drugs specifically launched for the use of the psychiatrist, said DR. D. W. LIDDELL (Runwell Hospital, Wickford, Essex) addressing a recent meeting of the Romford Branch of the Pharmaceutical Society, but the profession had made use of numerous products originally introduced for use in general practice. Dr. Liddell mentioned the historical background of the treatment of mental disorders and said that it was only a comparatively short time ago that flogging was the universal treatment. The difficulty of diagnosis at the present time was commented upon together with the successful use of certain drugs as diagnostic aids. Stating that normal behaviour depended upon intellect, perception and emotion, Dr. Liddell proceeded to consider some disorders which affected those various aspects and the effects of drugs which had been tried for the correction or control of those disorders. The operation of the electro-encephalograph was described and its possible use in the screening of newly discovered drugs that might have a psychiatric use was discussed. Dr. Liddell thought its use in that way would be limited. He also gave details of the use of hexamethonium bromide as an adjunct in insulin therapy in psychiatry.

BRADFORD

Cost of the National Health Service

THE cost of the National Health Service represented 10 per cent. of the national Budget, said DAME ENID RUSSELL SMITH (under-secretary, Ministry of Health), addressing members of the Bradford Branch of the Pharmaceutical Society at their meeting on January 20. Speaking on "The Chemist Contractors and the National Health Service," Dame Enid explained that the total gross cost of the National Health Service in England and Wales for 1954-55 was £448 millions to which must be added money paid by patients, and by local authorities. Hospitals took the main part, namely £284 millions, and the rest was accounted for by the domiciliary services, general practitioners, pharmacists, dentists, opticians, and employees of the local authority, such as midwives, home-helps, etc. It was essential that a proper balance be kept between the hospital services and the rest. Other countries faced with similar problems had tried various methods to counter the rise in cost, such as registration of proprietary preparations coupled with a prohibition of sale if not registered. That method to stop multiplication of formulas was in operation in France and the Benelux Countries, but there were serious difficulties in operation. Control of prices was widely used as a wartime measure, but the idea was to get rid of controls rather than add to them. In Australia a black-list was in operation whereby certain drugs only were allowed to be prescribed as part of the N.H.S., other preparations being paid for by the patient. Changes in prescribing habits made it necessary to review payments to pharmacists. The average cost per prescription in October 1954 was 50½d. When chloramphenicol became prescribable there was a rise of 2d., but when aureomycin and terramycin were available there was no sharp rise in cost. The speaker paid tribute to the contribution of chemists to the scheme, particularly regarding the service to the public in making the one shilling charge work smoothly. She also added that the standard of dispensing under the Service was very high.

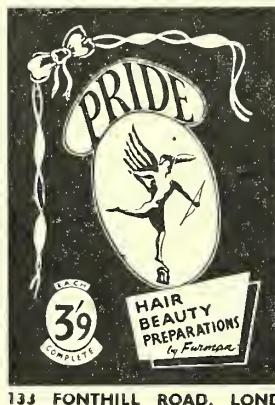
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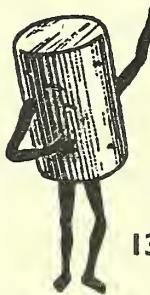
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The CHEMIST AND DRUGGIST

For Retailer, Wholesaler and Manufacturer

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TELEGRAMS: "CHEMUS ESTRAND, LONDON"

Ups and Downs of Estimating

A RECENTLY published supplementary estimate (see p. 194) confirms the verdict "Guesswork" with which a year ago we headed our comments on the pharmaceutical services estimates for 1954-55 (*C. & D.*, April 3, 1954, p. 345).

At the time it was estimated that in England and in Wales the average ingredient cost per prescription would fall. A rise has, in fact, taken place in each country. In Scotland it was estimated that there would be a rise in average ingredient cost. In fact the rise has proved to be greater than was anticipated—and that despite the introduction of "areal" averaging and the supply of the figures obtained, to doctors. Perhaps the rise would have been even greater had those figures not been circulated.

In the 1953-54 estimates the Scots budgeted for a fall in average costs and a fall took place; in England for that year a rise was expected but a fall took place.

At first glance it would appear that the Scots are the better at the guessing game but closer examination of the figures fails to substantiate that impression. In the total original pharmaceutical estimate for England for 1954-55 roughly a 0.3 per cent. fall was budgeted for; in Wales a 1.5 per cent. fall; and in Scotland a 4.5 per cent. rise. If for each country roughly 5 per cent. had been ADDED to each of those figures the present new total estimates would have been arrived at, for they show over the estimates of 1953-54 a 5 per cent. rise; a 2 per cent. rise; and a 9 per cent. rise respectively. Wales does not quite fit into that theoretical picture.

Diseases and Remedies: A New Edition

THIS week the tenth edition of *Diseases and Remedies* makes its appearance. First published over half a century ago this invaluable handbook, written expressly for pharmacists, was entirely rewritten for the ninth edition, published in January 1953 and now exhausted.

The new edition follows closely the lines of the ninth, but takes in a number of additions to the subject matter to keep the work fully abreast of modern methods of treatment. In fact, certain treatments are outlined that may be still matters of research, the criterion followed having been that, at the time of going to press, they showed sufficient promise to warrant the belief that they would become established before the next edition. The policy of describing treatments that are the combined efforts of doctors, nurses and pharmacists has been adhered to. It is becoming

ever more important for the pharmacist, if he is to be in a position to co-operate effectively in the National Health Service, to be able to advise his medical colleagues on the advances in pharmacology. *Diseases and Remedies* provides the background essential to such advice.

Certificates in Truss Fitting

THE registrar of the abdominal hernia appliance fitting council of the Institute of British Surgical Technicians (Mr. H. G. W. Bond), has informed us that, following the publicity given in this paper in 1954 (*C. & D.*, July 31, 1954, p. 105) on the activities of the council, a membership of nearly 150 fully qualified and certificated truss fitters has now been established. That number includes those who qualified at the examination held at the Chelsea Polytechnic, London, in November 1954 after a series of lectures given by Mr. G. Qvist, F.R.C.S. who conducted the examination and Mr. F. Mitchell-Heggs, F.R.C.S., who were assisted by examiners of the Institute on the practical side. Diplomas are shortly being awarded to successful entrants. The council is now organising further lectures (at present in the main provincial centres) and contemplates a further course at Chelsea Polytechnic in the autumn. Any pharmacist requiring information or details relating to the scheme of certification should apply to the Registrar, Abdominal Hernia Appliance Fitting Council, Institute of British Surgical Technicians, 6 Holborn Viaduct, London, E.C.1.

Looking After Customers' Property

SOMETIMES chemists are asked to take temporary charge of customers' goods or property. It is a service they would naturally wish to perform, but there are legal implications that should be known.

The legal term for goods deposited with third parties is "bailment," and the person with whom they are deposited is a "bailee." A bailee of goods is not bound to take more than reasonable precautions for their safety. Provided he has taken such precautions and has not been negligent in any way, he cannot be made responsible for any loss or damage to the goods.

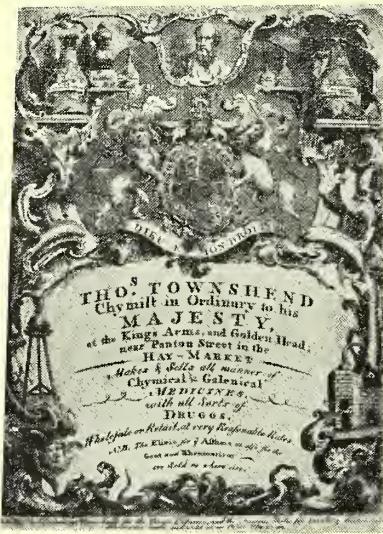
The person with whom goods are left may be a bailee for reward, or the bailment may be gratuitous. When the goods are stored for a fee, or left for repair or alteration, or for the purpose of having something done to them for a fee, the bailee is a bailee for reward. Where the bailment is gratuitous, the fact that the bailee is to receive no reward of any sort does not relieve him from liability for loss or damage. That is implicit in the obligation of taking "reasonable precautions for their safety." Thus a person minding some expensive article for another, and omitting to keep the doors of the premises locked, thereby enabling thieves to enter and to steal the article, would not be able to plead as a defence that he was receiving nothing for his trouble.

It is not unusual for bailees to stipulate a limit to their liability for loss or damage to goods entrusted to their care, though they do not always do so with success. In a recent court case a fur coat was left with a defendant for storage. Its return was demanded some months later. A receipt had been given for the coat and it included a clause limiting the defendant's liability and providing that all goods were "left at

customers' risk." When called for, the coat could not be found, and the plaintiff sued the defendant for its return or alternatively for its value. The defendant, relying on the exemption clause, contended he was not liable, but the court held that the exemption clause did not protect him in the special circumstances of the transaction. Had he been able to prove in what way the coat had been lost (for example, by being destroyed or stolen) then the clause might have operated. But he could give no explanation for its disappearance. In consequence, the clause did not absolve him from ordinary liability. The Court pointed out that any one of a number of things might have occurred and that, in the face of some of them, the defendant would not have been entitled to shield himself behind the exemption clause. Since no explanation of how the goods came to be lost was available, the defendant (the bailee) could not prove that they were bound to have occurred from some cause to which the exemption clause extended. The moral seems to be, at the very least, to keep track of what happens to goods left in one's care.

Onward from Galen A CURRENT CAUSERIE

AT the head of an article by Miss Agnes Lothian, F.P.S., on "Bears' Grease Pot Lids," published in our Annual Special Issue, 1951, appeared the illustration of a small pot bearing the name T. Townshend. That pot, shown in three aspects below (and much nearer the actual size than the miniature illustration of 1951) was put up for auction in London in 1954, and went overseas. It is now owned by Mr. and Mrs. Henry N. Flynt, Deerfield, Massachusetts, U.S.A., who acquired it for inclusion in a museum with the



engaging title "The Deerfield Restoration." British visitors will henceforth have to travel a long way to view an exhibit that has associations of considerable historical interest, for Thomas Townshend was "Chymist to George II." Townshend, whose pharmacy was near Panton Street, Hay-

market, "at the King's Arms and Golden Head," evidently set great store by advertisement, for in addition to having his name inscribed on the electuary pot he made use of the trade card in this paragraph, in which the Royal Arms are set among the paraphernalia of alchemy linked with a name that has twice come into prominence in a pharmaceutical connection in recent years.

CORRESPONDENCE

Letters when received must bear the name and address of the sender, not necessarily for publication. The Editor does not hold himself responsible for the views expressed.

A "REDUNDANT T"

SIR,—In October 1954 I was taken to task (*C. & D.*, October 30, 1954, p. 447) for spelling *Betwys-y-Coed* with two 't's. I accepted the correction, as I still do, but I note from the *Manchester Guardian's* "Miscellany" column of January 29 that I am not alone in feeling a certain nostalgia for the obsolete spelling, especially when, as the writer of the column points out, there remain six "Bettwyses irredenta . . . all still slumbering happily, double-teed and unregenerate, in their Celtic twilight."

JOHN SAXON

UNIFORM PRICES

SIR,—The *Sunday Express*, which is so much against protected prices, has surely slipped up. In its leader on February 2 it damns the Motor Trade Association over the matter of a dealer who is cutting the price of tyres. On the same page, under "Current Events," John Gordon is weeping his eyes out because there are not fixed fines for the same motoring offence in two different counties! Nor do they blush at accepting advertisements from firms which advertise their goods together with the price of the article. I have drawn the paper's attention to this anomaly as well as pointing out that on page one the price of the paper is printed as being 2½d.

ST. ANDREWS

A. W. KEITH

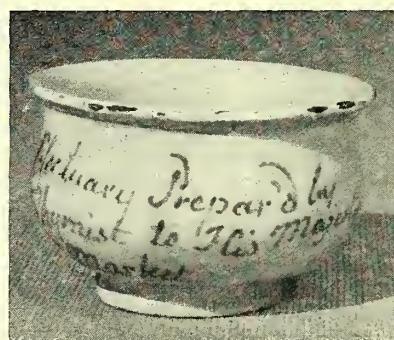
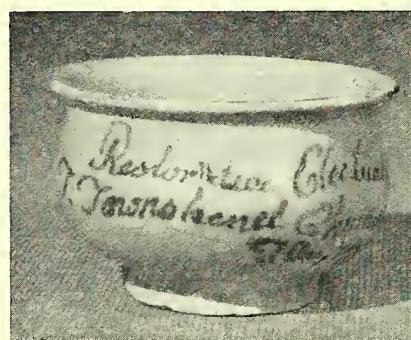
VETERINARY SALES

SIR,—As a regular reader of the *C. & D.*, I have noted that the old *Veterinary Counter Practice* has been re-written and now appears under the new title *The Chemists' Veterinary Handbook*. I hope that, as a result, a line of prosecutions will not be instituted by the Royal College of Veterinary Surgeons under the Veterinary Surgeons' Act, 1948. According to an R.C.V.S. report, a prosecution was instituted on January 7, 1952, based on "counter prescribing." An earlier one was brought on December 12, 1951, for "selling skin lotion for animals." Under the provisions of the Veterinary Surgeons' Act, 1948, there was no provision forbidding the sale of animal medicine or "counter prescribing." In fact, why should there be, when proprietary medicines are freely sold by pharmacists for human beings? The R.C.V.S. appears to have taken it upon its shoulders to extend the Act as and how it pleases. I wish to express the following personal opinion, that it is time these matters were brought to the notice of Members of Parliament and strong action taken to curb these prosecutions, which appear to be instituted on the slightest pretext.

LONDON, S.W.7

DOUGLAS J. HALLAM

[THE pharmacist may stock and supply animal medicines. Under the Act he may not diagnose.—EDITOR.]



Illustrations of electuary pot by permission of Mr. E. E. Simmons, Pinner.

Hieronymus David GAUB (1705-80)

Physician and Chemist

By W. R. BETT, M.R.C.S., L.R.C.P., F.R.S.L., F.C.S.

SURPASSED only by Hermann Boerhaave in his fame as a teacher of medicine, Hieronymus David Gaub was born in Heidelberg, Germany, two hundred and fifty years ago, on February 24, 1705, and educated at the *edagodium* in Halle, where discipline was so severe that he begged to be removed. While on a visit to Amsterdam, where his uncle was in medical practice, he decided to study medicine. Accordingly he attended the medical school at Leyden, the shining light of which was the great Boerhaave. He attracted the attention of his famous teacher, and a cordial friendship ripened between them, which was terminated only by Boerhaave's death in 1738. Having obtained his doctor's degree in 1725, Gaub pursued post-graduate studies in France and in Amsterdam, and, on being appointed physician to the ancient town of Deventer in the province of Overijssel, Holland, devoted his leisure to studying pharmacy.

In 1727 he was recalled to Amsterdam, where an epidemic of a fever was taking a terrible toll of the inhabitants. For two years he was exposed to infection without any ill effects, and it is interesting to find the writer of his obituary in *Histoire de la Société Royale de Médecine* speculating as to why medical men seemingly acquire immunity, and the process by which their powers of resistance are increased.

In 1731 Gaub began to teach chemistry at Leyden, where he was to remain until his death. He was lector until 1734, and was then given the chair of chemistry, which was afterwards combined with that of medicine. The time had come for Boerhaave to lighten his burden, and in relinquishing the professorship of chemistry, he expressed the desire that Gaub should succeed him. Although the election of foreigners to professorial positions was contrary to established practice, the great Boerhaave's wish was treated as a royal command. Gaub thus became the colleague of his revered master and subsequently took his place as the leading medical authority in Europe. Medical historians consider him a better chemist than physician, and his *Libellus de methodo concinnandi formulas medicamentorum* (Leyden, 1739, 1767; Paris, 1749; Frankfurt, 1750; four Dutch editions) is regarded as his most valuable work. Gaub had considerable influence on the simplification of prescriptions, and was always ready to put remedies to the test. He wrote on the distillation of oil of vitriol, borax, and sal ammoniac, and devised an instrument for introducing tobacco into the intestines—a form of treatment in common use at that time. He tested sea water obtained from various points on the Dutch coast, advocated its use in the treatment of scrofula, and introduced calumba as a mild tonic or stomachic (it first appeared in the London Pharmacopœia in 1788).

Influence on Medicine

Gaub's influence on medical thought was enormous, and in some respects unfortunate. His *Institutiones pathologicae medicinalis* (Leyden, 1758, 1763, 1775; Paris, 1770) for long remained a popular text-book on the Continent, and its teaching was accepted without question by students unaware of the work of Morgagni and of Matthew Baillie. Gaub maintained the existence of a "vital force," to which he attributed energy and receptivity, and which he localised in the solid parts alone; he assigned sensation and motion to irritability. Besides those defects of solid pathology he also recognised disturbance of fluids (which, however, originated in diseases of the solid parts), and he conceded to fluids a "concealed vital force." In his compendium of what Castiglioni describes as "archaic uselessness," Gaub

applies the Hallerian doctrine of irritability to pathology. He attaches great importance, however, to the healing power of Nature, which he considers amply sufficient to overcome sickness and which, curiously, he credits sometimes to the soul and sometimes to the body. Though his views retarded the progress of pathological anatomy, he advanced the knowledge and use of drugs. He initiated regular correspondence between Leyden and Batavia in order that information on the remedies available in the Indies should be known in Europe.

Gaub became the best known medical man in Europe. His renown extended as far as Russia, where Catherine the Great made him several tempting offers to accept the post of her principal physician. His many honours included the rectorship of the University of Leyden and foreign membership of the Royal Societies of London and Edinburgh. He died of a malignant fever on November 29, 1780, at the age of seventy-five.

CHARLES BLACHFORD MANSFIELD (1819-55)

Founder of the Aniline Industry

THE death one hundred years ago (on February 26, 1855) of Charles Blachford Mansfield, from burns sustained while he was experimenting with benzene, robbed chemistry of a brilliant investigator who laid the foundation of the aniline industry. Mansfield was born on May 8, 1819, at Rowner, Hants, where his father was rector. He was educated at Winchester and Cambridge and took his B.A. in 1846, his M.A. three years later. With the idea of becoming a doctor he attended some courses at St. George's Hospital, London, but decided instead to devote his life's work to chemistry, so that he might comprehend the essential harmony of creation. Accordingly he became a student at the recently founded Royal College of Chemistry, where he attracted the notice of von Liebig's distinguished pupil, August Wilhelm von Hofmann. Von Hofmann suggested to him a line of research that was to have far-reaching results.

Separation of Pure Benzene

Benzene (called "benzol" by Liebig) was discovered in coal-tar by Hofmann in 1845. In 1849 Mansfield did the first successful fractionations of coal-tar naphtha, separating a pure benzene distilling below 100° C., from a less volatile naphtha by employing simple dephlegmators. Benzene is important commercially as a solvent for gums, resins, and fats, and is, of course, of considerable interest to chemists as the parent of the "aromatic" or "benzenoid" series. Mansfield published in 1849 a pamphlet on "Benzol, its Nature and Utility." He patented his inventions, though others reaped the profits from them. Keenly interested in social welfare, he collaborated with Frederick Denison Maurice and Charles Kingsley (a contemporary at Cambridge), in improving the conditions of the London labouring classes, and during the cholera epidemic of 1849 campaigned for a pure water supply for Bermondsey and other districts of London.

News coming of a dirigible built in Paris, he turned his attention to aeronautics, and wrote a book on "Aerial Navigation" in which he made many forecasts that have since been proved correct. In the winter of 1851-52 he delivered at the Royal Institution a course of lectures on

the chemistry of metals. The lectures were noteworthy for an attempted classification based on a system of his own devising. In 1852 Mansfield interrupted his chemical researches to visit Paraguay, an "unspoiled Arcadia," where he was permitted to enter territory hitherto closed to Europeans. He wrote a fascinating account of the people and plant and bird life of the country, and drew up a scheme for the colonisation of the Gran Chaco.

PHARMACEUTICAL SOCIETY OF IRELAND

Whole Council a Committee for Dublin Conference meeting

THE Council of the Pharmaceutical Society of Ireland has constituted itself a Conference Committee for the British Pharmaceutical Conference to be held in Dublin in 1956, and has appointed the vice-president (Mr. P. F. McGrath) chairman of the committee, with Mr. D. J. Kennelly as secretary and Mr. H. P. Corrigan as treasurer. Those decisions were taken at the Council meeting held on February 8, Mr. M. Costello (president) in the chair. Other members of Council present were Messrs. P. F. McGrath, H. P. Corrigan (treasurer), J. Gleeson, T. B. O'Sullivan, P. A. Brady, N. A. McKane, E. McSweeney, P. A. Fullam, G. C. O'Neill, F. Loughman, A. A. Toher, J. J. O'Regan, D. J. Kennelly, C. J. Cremen, M. Power, T. C. Scott and F. J. Robinson. Apologies for inability to attend were received from Messrs. C. D. O'Shea and J. A. O'Rourke.

"Fighting Fund" Progress

Before the business on the agenda began, MR. KENNELLY, as treasurer of the "Fighting Fund" (see *C. & D.*, January 22, p. 95), gave a detailed report on the progress of the fund, the amounts received and the percentages for each area. In those few parts of the country where the percentage of subscriptions received was not as high as it might have been, he suggested that action should be taken through the local associations, rather than by sending out circulars.

THE PRESIDENT thanked Mr. Kennelly for the care and trouble he had taken to make a success of the fund. The response had been most encouraging, and members and licentiates were to be complimented on the way in which they had backed up the decision of the Council and the members' meeting. It was particularly gratifying to find places such as the counties of Monaghan and Cavan, in which there was no active local association, giving such fine support.

MR. O'SULLIVAN: The fund is still open? THE PRESIDENT: Oh, yes, of course.

A letter was read from Mr. F. W. Adams (a secretary and the registrar of the Pharmaceutical Society of Great Britain) asking if the Society would, as before, approve of the nomination made by his Society of a representative on the British Pharmacopoeia Commission, to fill the vacancy caused by the resignation of Professor R. P. Linstead. It was agreed to follow previous procedure and approve of the choice made by the Society in London.

A letter was read from Mr. H. G. Rolfe (secretary, British Pharmaceutical Conference) inquiring what date would be suitable for Mr. F. W. Adams, Dr. E. F. Hersant and himself to visit Dublin for consultations in connection with the 1956 Conference to be held in Dublin. It was agreed that Messrs. Rolfe and Adams and Dr. Hersant should be invited to visit Dublin from February 23 to 25.

THE PRESIDENT said that it was time that a chairman and a secretary of the Conference Committee were appointed. The Council itself would constitute the committee, and he now proposed that the vice-president should be chairman of the committee.

MR. CORRIGAN seconded and the president's proposal was carried unanimously.

MR. MCGRATH, accepting the appointment amid applause, said that one of the first things to do was to appoint a secretary and treasurer. He suggested that the Council

On his return to England he published his chief contribution to theoretical chemistry, "Theory of Salts" (1851). He was in that year invited to send some specimens of benzene to the Paris exhibition, and was engaged in the preparation when on February 17, 1855, a naphtha still overflowed. Mansfield was severely burned while attempting to carry the blazing still into the street, and died nine days later at the Middlesex Hospital.

PHARMACEUTICAL SOCIETY OF IRELAND

Whole Council a Committee for Dublin Conference meeting

should appoint as secretary Mr. Kennelly, who had done such a fine job on the Fighting Fund. He was a young man and a better man for the position could not be chosen. For treasurer the Council could not choose better than its own treasurer, Mr. Corrigan. THE PRESIDENT seconded Mr. McGrath's proposal, which were carried unanimously.

MR. MCGRATH informed the Council that he had already been in consultation with some of the leading hoteliers in Dublin, and they all thought that the best time to hold the Conference would be about the first or second week in September, when hotel accommodation would be available for 500 to 600 guests. The Universities would have to be consulted regarding accommodation for students attending the Conference, and the Royal Dublin Society could also be consulted regarding the use of its premises.

A letter was read from Mr. P. O'Briain, offering the help and services of the Chemists' Debating Society in connection with Conference arrangements. The latter was noted for future use, members expressing appreciation of the Society's offer.

Messrs. Kevans & Son (secretaries of the General Meeting of Senate Nominating Bodies) wrote forwarding for the Council's information a report of the decisions reached at recent meetings of that body, which is pressing for reform of the present method of election to the Senate. Amongst other things it recommended that the existing *Oireachtas* sub-panel should be abolished.

MR. MCGRATH said that Mr. Cremen and he had attended as observers one of the meetings called by that body. Of the forty-two nominating bodies, twenty-seven were represented.

Dail Sub-panel

MR. LOUGHMAN thought that that body was not moving on the right lines. He thought that a Dail sub-panel was necessary to get a working Senate. A non-political Senate was not possible. In the past the Dail sub-panel had elected many people who were very useful. He did not think that a stage of vocational organisation had yet been reached when a vocational senate could be elected.

It was decided to pass over to Mr. Loughman for study and a report, all the reports on the subject.

PROFESSOR J. BAYLEY BUTLER (outgoing examiner in botany and *materia medica*) wrote thanking the Council for its courtesy to him during the past fifteen years.

Drs. Eleanor Mary Hillery, Milltown Malbay, and Margaret Irvine O'Doherty, Terenure, Dublin, submitted L.A.H. certificates and requested registration as pharmaceutical chemists. The applications were passed.

The following changes of address were notified: Mr. Jeremiah J. Dawson, L.P.S.I., to 3 Sunbury Gardens, Darragh, Dublin, and Martin P. McCooey, M.P.S.I., to 12 Grafton Street, Dublin.

The reports of the House, Law, and Schools Committees were submitted and approved. Arising out of the House Committee Report it was mentioned that further additions to the existing College would have to be made to provide additional classrooms for the new courses. The registrar (Mr. James G. Coleman) submitted sketches indicating the proposed extensions. Mr. Coleman was complimented on the excellence of the drawings submitted.

Arising out of the Law Committee's report the Council considered suggested additions and amendments to the draft proposals for new pharmacy legislation submitted by the Department of Health.

The examiners to the January Licence examination reported that twenty-four candidates sat for the Part I examination, twelve of whom passed; forty sat for the Part II examination and sixteen passed; six sat for the Dispensing Chemist and Druggist examination of which four passed. That, it was reported, was the last Chemist and Druggist examination to be held under the Act.

The following appointments of examiners were then made by the Council: Dr. Mabel Kane, University College, Dublin (examiner in biology (zoology, botany and bacteriology)); Dr. Eoin C. Dowling, M.P.S.I. (examiner in pharmacognosy); and Mr. Michael J. Dunne, M.P.S.I. (examiner to the Assistants' examination).

THE PRESIDENT reported to the Council that he had that day attended the inaugural meeting of the new Advisory Health Body to examine the feasibility of providing a health insurance scheme, and MR. MCGRATH reported on

recent meetings of the Health Advisory Council, which he had attended.

The Council passed votes of sympathy on the deaths of the late Dr. C. H. Hampshire and Major Saville Peck (see *C. & D.*, January 22, p. 85 and January 29, p. 111).

The following were elected members of the Society: Messrs. William D. Broderick, Cailain Conefrey, James D. Curran, Donal J. Meagher, John G. McHugh, John C. Ryan, James J. Gannon, William P. J. Gannon, James J. Malone, and Miss Mary Philomena Mulvany. The following were nominated for membership: Misses Kathleen J. Casey, Dominick Street, Mullingar, co. Westmeath; and T. C. McDonnell, Bellavaney, Castlebellingham, co. Louth; Mrs. Hannah Reid, Main Street, Schull, co. Cork; Mr. John Roche, Main Street, Gorey, co. Wexford; Mrs. Eleanor Hillery, Main Street, Milltown Malbay, co. Clare; and Dr. Margaret I. O'Doherty, 32 Greenlea Road, Terenure, Dublin.

At a meeting of the Benevolent Fund Committee held at the close of the Council meeting a number of grants were passed for payment.

A Chartered Accountant gives answers to ANY BUSINESS QUESTIONS?

We are admitting an additional partner to our business, which is on the normal basis of tax assessment (on the previous financial year's figures). We take it, therefore, that the new partner will not be liable to tax on his share until the present year comes to be assessed. Is that so?

THE general ruling is that a new business is treated as being set up where there is a change in ownership of a business. That results in an alteration in the basis of the closing and early assessments arising out of discontinuance and commencement of a new business. An exception is made where one of the persons engaged in the business before the change still continues to be engaged in it afterwards, as apparently in the present instance. In those circumstances a claim may be lodged to remain on the "previous year" basis of assessment, that is to say, to continue as if there had been no change. The claim must be signed by all parties concerned both before and after the change, and must be submitted within one year. Whether a continuing basis is advantageous or not, the alternative assessments must be compared. It must be noted, however, that, if the former course is decided on, the existing assessment on the previous year's results is apportioned between the respective parties in the tax year itself. Thus if a partner is admitted half-way through the tax year, he is normally assessed on his partnership share of half the previous year's profits, though in fact he was not a member of the partnership at the time. A partner who does not wish to sign the notice, for the reason that he is likely to suffer an increased liability by so doing, may of course be indemnified by the others.

I have bought a property with the aid of a building society advance, and make monthly repayments by means of a standing order through my bank. I have no endowment assurance, and am not proposing to take any out. Can I ensure some protection for my family, in the event of my death, by taking advantage of some other but inexpensive insurance?

It is possible to take out a mortgage protection policy under which the building society is repaid whatever amount may still be outstanding at the date of your death. Various schemes are put forward by insurance companies, and it may also be arranged that a cash sum is payable (with or without the right to share in the profits) if you survive the term of the mortgage. As repayments under the mortgage are made each month, the policy provides for the sums assured to decrease by monthly amounts each year, and it is possible to take out an insurance at any time in the course of the mortgage. Where no sum is payable in the event of survival, the number of yearly premiums payable may even be limited, so that the last few years are covered without any further payment. Income-tax relief is obtain-

able on premiums paid by a taxpayer for assurance on his life.

In converting my pharmacy into a limited company, with myself as a director, I did not transfer the ownership of my car, which I use partly in the business, charging the company with running expenses so far as applicable. The inspector of taxes now wants to know the market value of the car at the time the limited company took over. What has he in mind?

THE acquisition of the business by a limited company amounts to a succession. Although the ownership of the car remains with the former proprietor (a company is a distinct person), it amounts to an act of personal retention. That requires a notional sale, with the open market value taken into account in computing the amount of any balancing charge or allowance as the case may be. In effect, the Inland Revenue seeks to bring the total allowances given for wear and tear, etc., into line with the factual position at the time of the succession. If too great an amount has been granted, a balancing charge for the excess is made. If too little has been given, the taxpayer may claim the difference. It should not be lost sight of, however, that the director may obtain an allowance for expenses that are wholly, exclusively and necessarily defrayed. Capital allowances (wear and tear, etc.) in respect of the car may be part of that claim, though it is necessary to limit them to the fraction representing ratio of business use to total use.

CHEMIST'S VETERINARY HANDBOOK

CORRIGENDA

HOLDERS of copies of *The Chemist's Veterinary Handbook* are asked to note the following corrections:—

- p. 199. Last line. For "inhibits" read "inhabits."
- p. 325. Line 21. For "pain or pressure or handling" read "pain on pressure or handling."
- p. 425. Against entry "Pentobarbiton. sod." for "see page 7" read "see page 71."
- p. 500. Under "Dosage. Stilboestrol (by mouth)" read "Bitches 0·2-5 mgm."
- p. 522. For index entry "H.T.S.S. pasteurisation" read "H.T.S.T. pasteurisation."

A printed slip giving the corrections for insertion in the book is obtainable on application to the Editor, *C. & D.*, 28 Essex Street, Strand, London, W.C.2.



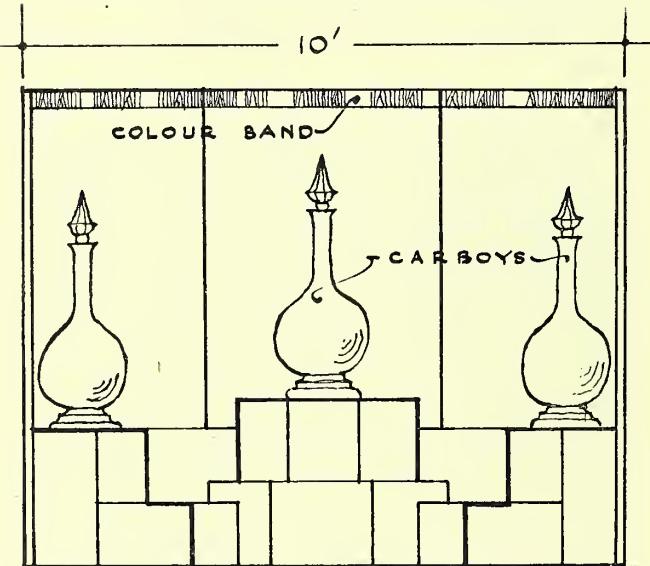
SHOPFITTING PROBLEM?

WRITE TO
JAMES GRIMM

The local Chamber of Commerce is holding an evening exhibition by the local traders. The floor area is approximately 10 ft. by 7 ft. deep, and I would like to make a display of photographic, medicinal, toilet and veterinary products. I have three large carboys which I think would help to make the stand more symbolic. I have never exhibited before, and would be grateful if you could give me some ideas or illustrations.

WHILE giving the dimensions of the stand as 10 ft. by 7 ft., you do not state if the stand is to be positioned centrally with gangways on all four sides, or whether it will stand against a wall and be viewed from one face only. It is assumed that the display will back on to a wall.

The display would be contained within a five-sided back-board, splayed on the rear corners as indicated on the



plan. The height of the background boards would be determined by the height of the stepstand displays and existing carboys. It will be seen on the elevation that the background boards finish about 12 in. above the top of the central carboy, and that, around the top edge, a band of colour is shown in order to bind the display into a

composite whole. The backboards themselves would be painted a pastel shade (dove grey, green, rose or cream) while the top band would be in a bright contrasting colour. The stepstands can be built of structural timbers with plywood facings and either decorated or covered with coloured paper. The central rear carboy is kept a little higher than the other two, giving a banked effect to the display. The centre area in front of the stepstands can be divided into three or four sections by either coloured tapes fixed to the display bed or by cut shapes of coloured paper. The central carboy and respective stepstand could be for toilet requisites and flanked by veterinary products (marked T and V on plan), while the other two carboys and their stepstands could be devoted to photographic and medicinal displays (P and M on plan). If you do not wish to go to the expense of having such stepstands made, you can get a similar effect by the use of existing display blocks, display stands, and plate-glass shelves. The whole unit would probably be carried upon a bed formed by trestle tables and draped at the front as required.

We have two showcases fitted into wall cases on each side of the shop. They are fitted with rod dressings and lighted by spot lights suspended from the ceiling (size of showcases: 4½ ft. by 5 ft. 9 in. deep). We are unable to get the correct kind of print for the back of cases to show up displays properly. What would you suggest? They are bright green at present.

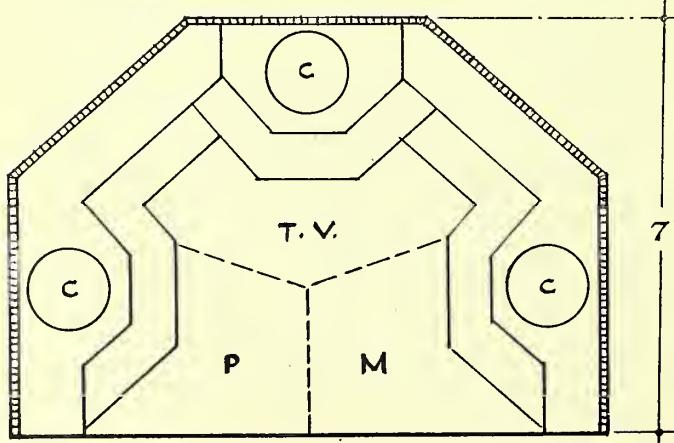
I THINK it likely that the problem is one of lighting as much as of suitable background. When you state that the background is bright green at present, presumably it has a paper covering which is probably fixed to the back of the showcase with drawing pins. It is always an advantage to have a form of background that allows changes to be made, and the following is suggested. With a few light wood battens, form a skeleton frame to fit the back of your showcase. It may have to be in two or three sections so that they can be conveniently handled and easily taken in and out. The frames should be covered with a soft quality Sundeala wall board about $\frac{1}{2}$ or $\frac{3}{4}$ in. thick. There are hard, medium and soft grades, the last-named taking drawing pins easily. The boards have in themselves a face texture that is not unpleasing. For one background you could distemper the board face a pastel colour. An alternative would be to buy a roll of suitable wallpaper and either paste or pin it to the Sundeala. A third method would be to buy a length of material and pin it to the background boards. Both wallpapers and fabrics should for preference have a small motif and not be too strident in colour. The object should be to create a harmonious background that will enhance the merchandise rather than to attract attention to itself. With a large showcase the lighting should be good. Often overhead lighting only is insufficient to do justice to a good display. I would suggest that the top lighting should be supplemented with strip lights and reflectors on the edge of the plate glass shelves. The method gives a light, even tone throughout the display. With top lighting only, the lower shelves, showcase bed, and often the background are shadowed by the merchandise displayed on the shelves. Good illumination is at least 50 per cent. of the secret of attractive display. It entails some initial trouble in fitting out strip lights, reflectors and wiring, but is well repaid by results.

FIFTY YEARS AGO

"CHEMISTS OUGHT TO SUPPLY"

From the C. & D., February 18, 1905

ALL fruit trees ought to be chemically washed before the end of February, and chemists ought to supply the chemicals for the washing. The "caustic wash" recommended by the Board of Agriculture is made by dissolving 1 lb. of pearlash in water, adding $\frac{1}{2}$ lb. of soft soap, and making up to 10 gall. with water. This mixture should be sprayed all over the trees especially where there is any moss or lichen or old decaying bark. The hibernating haunts of the woolly aphid, of the codlin maggot, and of many injurious insects are thus destroyed, scale insects are killed, and the eggs of the red spider and of the apple sucker are destroyed just when the embryos are maturing. The operator should be cautioned to take care of his hands while using the spray.



ESSENTIALS OF TREATMENT

A C. & D. "post graduate" course for pharmacists

DEALING SPECIALLY WITH THE PHYSIOLOGICAL AND PHARMACOLOGICAL PRINCIPLES INVOLVED

BY A MEDICAL MAN

24. DISEASES OF THE SKIN (concluded)

Dermatitis and Eczema

DERMATITIS and eczema are two terms that are commonly used to denote the same condition, which in fact, they do not necessarily do. They are also used by the lay public to denote conditions that do not really fall within the definition of either. Strictly speaking, dermatitis denotes any inflammation of the skin while eczema is an inflammation of the skin with a serous exudate. It is impossible in an article such as this one to deal with either condition in detail, and discussion is therefore being limited to general factors in aetiology and treatment. There are two main aetiological groups: cases due to some superficial irritant; and cases due to a generalised irritation arriving via the blood stream. External irritation is the more common, and the irritants usually fall within the classes (a) bacterial; (b) chemical; (c) due to heat and cold; (d) actinic; and (e) mechanical.

In the initial stages, the skin usually shows a catarrhal reaction, and if the irritation is particularly strong or prolonged, the papillary vessels become congested, with consequent congestion of the epidermis. In due course the condition, if allowed to progress, results in vesicles and bullæ beneath the horny layer. In the milder cases, only the follicles are attacked, and small follicular papules, possibly surmounted by a vesicle, occur. Pustulation may also take place. In another type of dermatitis the horny layer of the epidermis cracks. That effect is to be found in people whose hands are constantly in hot soapy water containing soda, so that the horny layer becomes sodden. When the skin dries, the cells contract and separate from one another, so that the more delicate cells of the mucous layer become exposed.

Bacterial Irritants

Bacterial irritants are provided by the toxic products produced by pathogenic bacteria, or in some cases—where the general health of the patient is below par—by the bacteria forming the natural flora of the skin. Chemical irritants are too numerous to list, but include substances that come into external contact with the skin and others that may be given internally as medicine. They also occur in the secretions of plants and insects and in certain cases as by-products of the decomposition of bodily secretions. Extremes of heat and cold are obvious irritants and within the actinic category fall the effects of ultra-violet light and x-rays. Mechanical irritation is produced by the movement of clothing or, in hands, of tools used at work.

The possible causes of dermatitis are thus legion, and the factor of allergy must not be excluded. The irritants are substances that may be used in the normal daily domestic life or substances employed at work. With the additional benefits under National Health Insurance, the patient is sometimes all too ready to blame his work, and pharmacists are well advised to refrain from discussing with the patient potential and likely causes of skin complaints. It is better to leave such advice entirely in more expert hands.

Treatment varies according to circumstances, but it may be both systemic and local. In the acute stages, it is often advisable to confine the patient to bed, and if necessary

to give sedatives, such as the barbiturates, in order to ensure complete rest. Many patients exhibit a sensitivity to bromides, which for that reason should not be used. Diet should be examined and spices, alcohol and other substances likely to cause peripheral dilatation should be avoided. Systemic treatment may include the use of one or other of the antihistamine compounds, and in this connection it should be remembered that many antihistamines have a hypnotic action. In fact, the antihistaminic action varies in many cases according to the hypnotic action. For that reason, such drugs as promezathine are prescribed to be administered once daily and at night. The patient should always be instructed in the side-effects of those drugs and warned of the dangers of driving cars and similar activities while under the influence of those drugs, so that he may not place himself or his fellow citizens in danger. A mixture containing potassium citrate, gr. 20, given three or four times daily, is frequently of value, as also is the administration of preparations containing the vitamin-B complex. Moreover, if allergy to some plant or substance has been proved to exist, systemic treatment in the form of inoculation against the offending substance is frequently indicated.

Local Treatment

Local treatment is arranged to remove the cause and to allay irritation caused by the offending substance. In the early stages the best results are obtained by the application of aqueous lotions such as lotio calaminæ, B.P.C. When allowed to dry on the skin, calamine lotion provides a protective covering. If it is inconvenient to use calamine lotion, conspers. zinc. oxid. et amyli. co., N.F., may be used. When much serous exudate is present, lead lotion is of value because it provides a coating of insoluble lead albuminate. If sepsis is present it must be treated either by the application of one of the antibiotics or preferably by means of aminacrine or a propamidine derivative.

So soon as the acute stage has been overcome, greasy preparations may be prescribed, and of these compound cream of calamine, B.P.C., is one of the most popular. To that preparation ichthammol, 2 per cent., may be added. Later on the cream without the ichthammol may be substituted, or alternatively one of the following:—

R Zinci. oxid. ...	... 5vi	R Zinci. oxid. ...	... 5i
Lanolini ...	... 5ii	Acidi salicylici ...	gr. x
Ol. olivæ ...	... 5i	Lanolini ...	... 5ii
Aqua calcis ...	... 5i	Paraff. molle ad ...	... 5i
Misce. Fiat tremor		Misce. Fiat ung.	

Ichthammol 2 per cent. may be added to either of the above formulas, if desired. When the condition becomes chronic, a protective paste such as Lassar's is indicated, or alternatively the following paste may be used:—

R Zinci. oxid. ...	... 5i
Amyli pulv. ...	... 5i
Paraff. moll. ...	... 5ii

In some cases a stimulant is indicated, and crude coal tar 1-5 per cent. or salicylic acid, 1-3 per cent., may be added. In cases that show no response, or prove to be resistant to the above treatment, small doses of x-rays may be prescribed, but the occasions for their use have to be carefully chosen.

Prophylactic treatment against external irritants is provided by the various barrier creams, the formulas of which are based upon the substance, or class of substances, against which the barrier has to be formed. Generally speaking they are designed to be used against water, against oil and/or against alkali or against acid. The formulas are designed to be adsorbent, absorbent, and antacid or ant-alkali as the case may be. In addition, water-repellent

and oil-repellent substances may be included in the formula. Numerous formulas have been prepared. They include substances varying from kaolin to silicones. Positive protection depends upon adequate coverage, and this can never be obtained to the same degree as a physical barrier in the form of rubber or other suitable gloves. Barrier creams are, however, of great value so long as their limitations are realised and they are applied with care.

SCIENCE AND AGRICULTURE

World Population and World Food Supplies

SIR JOHN RUSSELL. *George Allen & Unwin, Ltd.*, 40 Museum Street, London, W.C.1. 10 x 6½ in. Pp. 513. 50s.

THREE has been a spate of books concerned with the feeding of the world's population ever since the Food and Agriculture Organisation of the United Nations drew attention to the increasing gap between food production and population. Sir John Russell, in his contribution to the subject, places the present anxiety in perspective.

Sir John's attitude towards the possibility of resolving the problem is one of "tempered optimism." More, possibly, than any other man living he is an authority on the subject, having spent a distinguished lifetime in assisting, or rather leading, agriculture by the application of science; and having, since his retirement from the directorship of Rothamsted experimental station, made as his special study the problem of feeding a very hungry world. It is of some interest to recall that Sir John started his remarkable career, sixty-eight years ago, in pharmacy. He had a passionate desire to study chemistry and he thought that "in a chemist's shop they did chemistry." We know that he had confused chemistry with pharmacy, but it was unfortunate that he also chose the wrong apprentice-master. Few people now remember the pharmacies of 1886, but by most accounts they were hives of pill-making, plaster-spreading and tincture-percolating industry with, in the country places, the manufacture of cattle drenches, horse balls and sheep dips offering additional scope for pharmaceutical skill. John Russell was bitterly disappointed to find that "not only did they not do any chemistry, but they did not care two hoots about it. All we did was to buy stuff from the wholesale people, put it into bottles, put labels on the bottles, and sell it." One wonders what difference would have been made to pharmacy if Russell had continued in its ranks, instead of saving out of his sixpenny dinner an allowance for evening classes in chemistry. By dint of saving hard and studying during his limited spare time, he succeeded in throwing off pharmacy and taking up chemistry: in fact he eventually became lecturer in the subject at the Manchester University, and seemed all set for a career in pure science. It was his conscience that deflected him from that pursuit, for he became involved in social work in the slums of Manchester. That was in the late Nineties, long before that sort of thing came to be backed by Government bodies and paid workers. His interest in social work resulted in a naive scheme whereby the city slum-dwellers would be transferred to the country, where they could be encouraged to lead decent and useful lives.

Russell's first step was to transfer himself to the country, so—much to the scorn of his Manchester colleagues who warned him that he would be wasting his life—he applied for and obtained a post as lecturer at the Wye Agricultural College; for agricultural science was not a respectable subject in those days. At Wye he soon realised that his beautiful plan could not possibly work: his city-bred people had not the qualities of endurance, patience and honesty needed to make good farm workers. Besides, agriculture was in a depressed condition, and workers were having to look for jobs in the towns. So for a second time Russell suffered a disappointment.

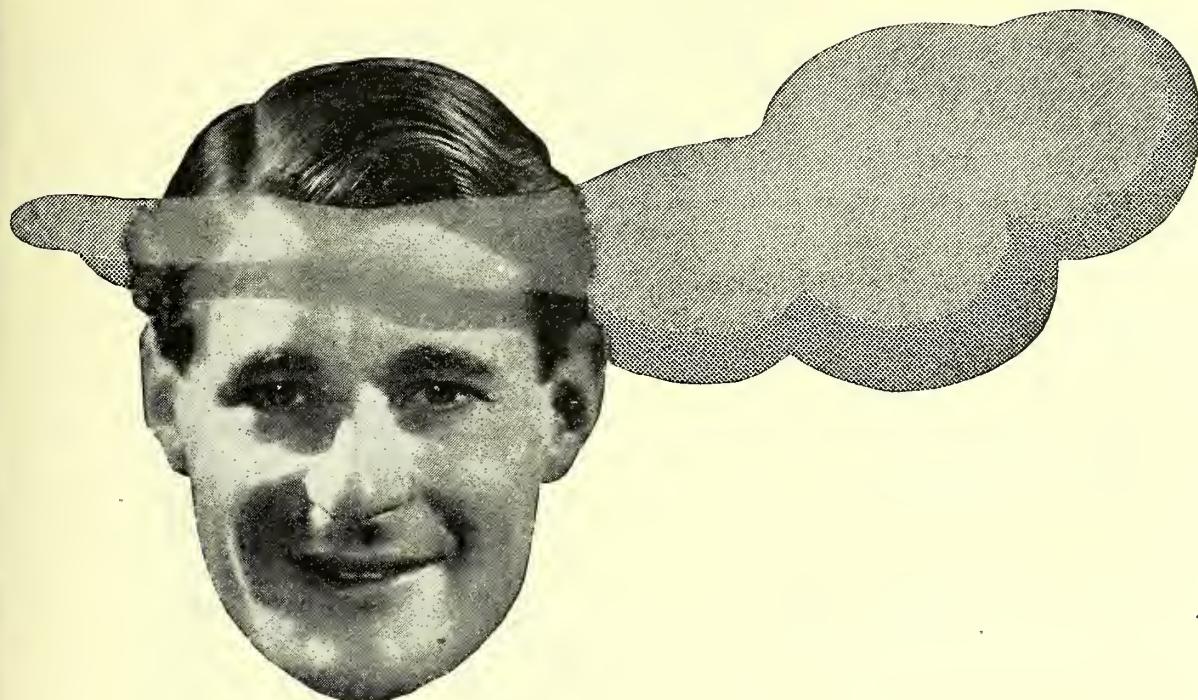
SCIENCE AND AGRICULTURE

It did not take him long to realise that there were all sorts of ways in which agriculture could benefit from the application of science. The main purpose of agriculture was, after all, the production of food, and food was the first necessity for sustaining human life. Agriculture and science do not today sound such strange bed-fellows, but in those days it needed courage to stake one's career on soil chemistry. In 1907 Russell moved to the small and moribund institution at Rothamsted, and it was at that time that Daniel Hall (the director of Rothamsted) appealed to the secretary of the Board of Agriculture for money with which to conduct his experiments. The then secretary (a Mr. Thomas Elliot) is reported to have said "I cannot conceive the circumstances in which a British Board of Agriculture will be at all interested in scientific work."

Russell travelled about the country lecturing and looking for money and recruits for Rothamsted. He found them both, infused his colleagues with his own purpose, and set them to work whilst he co-ordinated the results. "They were making the bits of the jigsaw puzzle and I was putting them together, building up the subject. I did it by keeping a book going." In gathering together the material for a new subject, agricultural science, based on observation from well-planned experiments, Rothamsted gained a new lease of life. As Russell's book became volumes, and the volumes became translated and used the world over, Rothamsted became the most famous agricultural institution in the world.

Today, at the age of eighty-one, Sir John Russell has fitted together another jigsaw puzzle—an encyclopaedia of world agriculture. It is founded not only on great scholarship, but on wisdom, humanity and, uniquely, on personal observation, for Russell has travelled to nearly all the countries surveyed in the book, has examined critically the uses to which their lands are put, and with his great knowledge illuminates their problems. With the unfortunate exception of Soviet Russia and her satellites, most of the countries in the world are dealt with. Their population, weather and agriculture are woven together. The book concludes with a brief survey of the possibilities of factory-made food, but Russell is obviously more concerned with increasing both the yields and the acreages of the more traditional crops. A vast difference exists between average and potential yields. As high a yield as 70 cwt. of wheat per acre has been known, though Great Britain's average (which is high compared with most) is 21½ cwt. Less than 10 per cent. of the earth's land surface is cultivated. The exploitation of the Negev desert in Israel, we learn, "is one for young people inspired with a great ideal and fired with the enthusiasm that can overcome difficulties before which a calculating economist would quail." That is the sort of faith which still inspires Russell's work, and which will be needed if the world's population is to be adequately fed. The way has been explored, and sign-posted well in his book, and anyone who wants a guide to world agriculture is unlikely to find one more erudite or readable.

THE APPLIANCE BEAUTIFUL. Dress designers were bound to get tired of keeping all their colourful ideas on the outside. An article on the new spring fabrics, in the *Sunday Times*, gives favourable mention to "a truss of full-blown Hiawatha climbing roses printed on a grey-blue linen."—From *Punch*.



Relief from allergy . . .

BENADRYL, probably one of the most potent histamine antagonists, has proved to be of great value in the treatment of hay-fever, urticaria, vasomotor rhinitis, angio-neurotic oedema and, in the majority of cases, gives long looked-for relief in the skin infections and pruritic conditions associated with allergy. The Parke Davis range of products which include Benadryl provide for oral administration, topical and ophthalmic application and a solution for injection where, in acute allergic conditions, rapid action is required.

BENADRYL CAPSULES

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BENADRYL CREAM

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BENADRYL OPHTHALMIC

BENYLIN EXPECTORANT

BENADRYL EMPLETS

BENADRYL PARENTERAL

BENA-FEDRIN

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It's as easy
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with the drinking water



Sodium Solution 16%

'Sulphamezathine' is sure—it is a virtually 100% effective treatment and is very safe. Sick chicks treated in time not only recover but are immune from further attacks. And the cost? Roughly ½d. a chick for a course of treatment.

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'Sulphamezathine' is widely advertised in the journals read by poultry keepers. Showcards are available on request.

**PREVENTION
of Coccidiosis**

'CHIXIN' brand of Nitrofurazone, mixed with the food, is an effective means of preventing coccidiosis. It is available without prescription to the domestic poultry keeper.

IMPERIAL CHEMICAL (PHARMACEUTICALS) LIMITED

A subsidiary company of Imperial Chemical Industries Limited

FULSHAW HALL, WILMSLOW, MANCHESTER



TRADE REPORT

The prices given are those obtained by importers or manufacturers for bulk quantities or original packages. Various charges have to be added whereby values are in many instances augmented before wholesale dealers receive the goods into stock. Crude drugs and essential oils vary greatly in quality and higher prices are charged for selected qualities.

LONDON, FEBRUARY 16: Trading was again quiet in all markets during the week, and there were few significant price movements to record. From preliminary figures issued by the Board of Trade it appears that imports during January were at a much higher level than in the previous year, the average for the months October 1954 to January being some 8 per cent. up. It will not be known, until the full figures are given in a week or so, how much higher were the imports of CRUDE DRUGS, ESSENTIAL OILS and PHARMACEUTICAL CHEMICALS.

A limited quantity of Prime Cape ALOES was offered on the spot, but shipment offers were not available. No Curaçao aloes is available on the spot now. GINGER again advanced as offers from Africa and Jamaica were insufficient to meet commitments. The African was 10s. a cwt. dearer on the spot and Jamaican, 5s. higher. CLOVES were in little demand in the London market, but prices held on reports that Zanzibar was shipping substantial quantities to the East. Chinese star ANISEED was quoted 15s. per cwt. lower. Stocks of FENUGREEK SEEDS are reported to be exhausted at origin. It is understood that the Jamaican Ministry of Trade and Industry has sent a two-man mission to London with a view to controlling the marketing of PIMENTO. They wish to stabilise the market price at a level which would ensure a steady demand and avoid a consumer changeover to substitutes when it is high. First arrivals of new crop BUCHU are expected to be valued at from 4s. 6d. to 4s. 9d. per lb., ex-warehouse. GUM ACACIA was quoted higher in all positions.

The market for ZINC metal remains very firm; at present it is over £90 per ton as against £75 in June 1954. ZINC OXIDE makers wishing to maintain their export trade have not followed the rise in price all the way. Whilst there has been a considerable turnover of metal during the past few days, B.P. oxide users are not excited about the position although there have been bookings up to as far ahead as June.

There were no price changes in PHARMACEUTICAL or FINE CHEMICALS during the week.

Pharmaceutical Chemicals

ADRENALINE. — Minimum rates for B.P. are from 1s. 3d. per gm. and ACID TARTRATE, B.P., 1953, from 8½d.

AMMONIUM CARBONATE. — B.P. lump is £76 10s. per ton; POWDER, £80. BICARBONATE is £49 per ton, delivered U.K.

ANEURINE HYDROCHLORIDE. — Price per kilo is £38 5s.; 10-kilos, £38 2s. 6d.; 100-kilos, £38.

BARBITONE. — Rates per lb. for 1-cwt. lots are 2s. 6d. The SODIUM derivative is 6d. per lb. more than the base.

CALCIUM SUCCINATE. — Quotations are from 10s. 6d. to 12s. 6d. per lb., as to quantity. SUCCINIC ACID is from 10s. 6d. to 12s. 3d. per lb.

DEXTROSE. — Rates are as follows:— MONOHYDRATE, B.P., 1-lb., 1s. 11½d.; 7-lb., 11s. 10d.; 28-lb., 43s.; free packages, less 12½ per cent. to wholesalers. In bulk, 1-ton lots, £90 ex works, ANHYDROUS B.P., 7-lb., 14-lb., 26s. 3d.; 28-lb., 49s. (terms as for monohydrate). 1-ton lots, £107 10s. ex warehouse.

GUAIACOLS. — LIQUID, B.P., is 16s. 3d. per lb. for 28-lb. lots; CRYSTALS, 16s. 9d.; CARBONATE, 18s. 3d.

HYDRAZINE HYDRATE. — Price per ton is £153 for the 10 per cent. (w/v) solution and £33 for the 2½ per cent.

IODIDES. — The current quotations are given below:—

IODIDE	per lb.	Quantity
AMMONIUM ...	22 0	28 lb.
ARSENIC TRI- ...	47 6	28 lb.
CADMIUM ...	22 6	28 lb.
CALCIUM (PLATES) ...	22 3	28 lb.
ETHYL ...	27 6	28 lb.
LITHIUM ...	29 0	28 lb.
POTASSIUM ...	13 7	1 cwt.
SODIUM ...	16 7	1 cwt.
STRONTIUM ...	23 0	28 lb.
ZINC ...	27 9	7 lb.

ISOPRENALEINE SULPHATE. — B.P. is 1s. per gm. for 1,000-gm. lots and 1s. 6d. per gm. for 100-gm. lots.

MAGNESIUM SULPHATE. — Quotations for B.P. in minimum 1-ton lots vary between £17 10s. and £20 per ton according to size of crystal and manufacture. Exsiccated is £34 per ton.

MAGNESIUM TRISILICATE. — In 28-lb. packages the prices (per lb.) are now as follows:—28-lb., 4s. 9½d.; 1-cwt., 3s. 10d.; 5-cwt., 3s. 7d.; 1-ton, 3s. 1d.

MERCURY DERIVATIVES. — Quotations (per lb.) for 1-cwt. lots are as follows: AMMONIATED, B.P., lump or powder, 33s. 9d.; PERCHLORIDE, B.P. powder, 29s. 9d. (lump 30s.); SUBCHLORIDE, B.P. (calomel), 34s. 3d.; OXIDES, B.P.C., levigated, or yellow, B.P., 37s.

PHENACETIN. — In 5-cwt. lots makers' price is now 6s. 8d. per lb., 1-cwt., 6s. 9d.

PHENAZONE. — Price is from 14s. 6d. to 15s. per lb. as to quantity.

POTASSIUM ACETATE. — B.P. is 2s. 8d. per lb. in 1-cwt. lots.

PYROGALLIC ACID. — Pure crystals are 18s. per lb. in 1-cwt. lots.

QUININE. — Makers' rates (per oz.) for 100-oz. lots and over are as follows:— ALKALOID, 3s. 10d.; ACETYL SALICYLATE, 5s. 4d.; BISULPHITE and SULPHATE B.P. 1932, 2s. 8d.; SULPHATE, B.P. 1948, 3s.; DIHYDROBROMIDE and DIHYDROCHLORIDE, 3s. 10d.; FORMATE, 4s. 8d.; GLYCEROPHOSPHATE, 4s. 5d.; PHOSPHATE, 4s. 4d.; HYDROBROMIDE and HYDROCHLORIDE, 3s. 5d.; SALICYLATE, 3s. 11d.; QUININE and UREA-HYDROCHLORIDE, B.P.C., 4s.; TANNATE, 2s. 7d.

ROCHELLE SALT. — Rates (per cwt.) for powder or granulated material are as follows: In 5-cwt. lots or over, 180s. per cwt.; 1-cwt., 182s. 6d. SEIDLITZ POWDER ordinary strength is 144s. per cwt. in 1-cwt. lots; smalls, from 1s. 9½d. to 2s. 0½d. per lb. Extra-strong is 155s. per cwt., and from 1s. 10½d. to 2s. 1½d. per lb. for small quantities. Double-strength is 161s. per cwt.; smalls, 1s. 11½d. to 2s. 2½d. per lb.

SODIUM PERBORATE. — Prices (per cwt.) are 142s. 9d. in 1-cwt. kegs; 135s. 3d. in 1-cwt. bags for B.P.C. (minimum 10 per cent. available oxygen). Other strengths pro rata. The PERBORATE MONOHYDRATE testing 15 per cent. available oxygen is 305s. 3d. per cwt.

SODIUM PERCARBONATE. — 1-cwt. kegs are about 163s. (bags 7s. 6d. lower) for minimum 12½ per cent. available oxygen.

SODIUM PHOSPHATE. — B.P. powder is 125s. per cwt.

STILBOESTROL. — Quotations are from 1s. 2d. to 1s. 7d. per gm. as to quantity. 1-kilo lots of B.P. are quoted at 10½d. per gm. The DIPROPIONATE is about 1s.

STRYCHNINE. — Minimum rates per oz. (1,000 oz. lots) include:— ALKALOID, 5s. 6d.; HYDROCHLORIDE, 4s. 5d.; SULPHATE, 4s. 9d.

SULPHATHIAZOLE. — Price (per lb.) for 1-cwt. lots is 21s. 9d.

VITAMIN E (synthetic). — TOCOPHERYL ACETATE, B.P.C., 10 gm. to 100 gm., 1s. 6d. per gm.; 100 gm. to 1 kilo, 1s. 3d. per gm., 1 kilo and under 10 kilos, £60 per kilo. The equivalent rates for racemic α -TOCOPHEROL (unesterified) are 1s. 8d. per gm.; 1s. 5d. per gm. and £66 per kilo respectively.

ZINC CHLORIDE. — B.P.C., cake from 4s. 6d. to 4s. 10d. per lb.; sticks from 5s. 10d. to 6s. 2d. per lb. TECHNICAL, 135s. per cwt.

ZINC PEROXIDE. — Price (per lb.) for 1-cwt. lots of B.P. is 5s. 3d.

Crude Drugs

ACONITE. — Spot supplies of Spanish *napellus* have been cleared. Nominal value 3s. 9d. per lb., duty paid.

AGAR. — *Kobé* No. 1 on the spot is unchanged at 16s. 9d. per lb., duty paid. Shipment, 14s. 3d., c.i.f., new-crop.

ALOES. — Prime Cape is quoted at 275s. per cwt., on the spot. Curaçao was offered at 350s. No shipment offers.

ANISEED (STAR). — Chinese is 165s. per cwt., in bond.

ASAFETIDA. — Persian block is from £10 to £14 per cwt., duty paid, as to quality.

BALSAMS. — Quotations (per lb.) are:— *Canada*: 20s. spot. *Copaiba*, B.P., 11s. 6d. *Peru* is 12s. 6d., duty paid; forward delivery, 11s. 3d., c.i.f. *Tolu* (genuine as imported), 26s. 6d. spot, and 26s. c.i.f.

BENZOIN. — Sumatra block on the spot is from £27 10s. to £32 per cwt.

CAPSICUMS. — East African on stalk are 160s. per cwt., spot. Abyssinian, off stalk, 205s., spot, duty paid.

CARDAMOMS. — Alcypy greens on the spot are 14s. per lb.; February shipment, 12s., c.i.f. Seed is 17s. 6d., c.i.f., and 22s., spot.

CASCARA SAGRADA. — Quiet. American 1954 peel for shipment is 220s. per cwt., c.i.f., London; spot, 260s., duty paid.

CASSIA BARK. — Whole on the spot is about 90s. per cwt., in bond, and for forward delivery, 81s. 6d., c.i.f. Broken 80s., in bond, and 72s. 6d., c.i.f.

CHAMOMILE. — Belgian flowers are 5s. per lb. on the spot.

CHERRY BARK. — Thin natural is from 1s. 8d. per lb., duty paid, and rossed, 2s. 1d., on the spot.

CHILLIES. — Mombasa. Spot supplies offered at 375s. per cwt. and shipment, 350s. per cwt., c.i.f., nominal.

GALANGAL. — Root is quoted at 70s. per cwt., c.i.f., for shipment, and spot, 85s. nominal.

GENTIAN.—French natural on the spot is from 122s. 6d. to 127s. 6d. per cwt., as to holder.

GUM ACACIA.—Kordofan cleaned sorts on the spot are quoted higher at 152s. 6d. per cwt.; February-March shipment (new crop), 138s. April-May, 133s., c.i.f.; afloat, 141s.

KOLA NUTS.—African halves are short on the spot at about 6d. per lb.

LIQUORICE.—Stocks of natural whole root are short on the spot. Quotations include: Anatolian at 70s. per cwt.; Russian, 65s.; Persian, 55s. Block juice quotations are 220s. per cwt. on the spot. Italian stick from 310s. to 475s. per cwt., duty paid.

MACE.—West Indian pale blade is 9s. 6d. per lb.; shipment, 8s. 10d., c.i.f.

MENTHOL.—Chinese is 60s. per lb., duty paid, also in bond and c.i.f. Brazilian afloat, 53s., c.i.f., and spot, 56s. 6d., duty paid.

MERCURY.—Nominal spot value is £108 10s. to £110 per flask of 76-lb. ex-warehouse.

MYRRH.—Aden selected sorts are about £14 10s. per cwt. on the spot. Siftings are from £7.

NUTMEGS.—West Indian 80's quoted at 3s. per lb. on the spot and 2s. 9d., c.i.f., for shipment.

ORANGE PEEL.—Bitter quarters are offered at 1s. to 1s. 1d. per lb.

PAPAIN.—Spot value for East African grade one is from 17s. 6d. to 18s. per lb.

PEPPER.—Market advancing. White Sarawak on spot sold at 4s. 4d. per lb. with sellers asking 4s. 5d.; afloat parcels now quoted at 4s. 3½d. to 4s. 4d., c.i.f. Black Sarawak is 3s. 2d. to 3s. 2½d., spot; afloat, 2s. 11d. to 3s., c.i.f. Black Malabar is lower at 410s. per cwt. on the spot but February shipment is dearer at 360s., c.i.f.

PIMENTO.—Spot is quoted at about 7s. per lb.

QUASSIA.—Spot quotations for chips are at about 45s.; April-May shipment is about 32s. 6d. per cwt.

RHUBARB.—Chinese is scarce on the spot with offers ranging between 7s. 3d. and 9s. 3d. per lb. as to quality. No offers for shipment.

SAFFRON.—Mancha superior is at about 175s. per lb.

SARSAPARILLA.—Jamaican native red on the spot is now offered at 3s. 10d. per lb. For shipment the price is 3s. 6d., c.i.f.

SASSAFRAS BARK.—Selected is 6s. 3d. and natural, 4s. 3d. per lb. landed terms.

SEEDS.—(Per cwt.) ANISE.—Cyprian or Bulgarian are nominally 280s., spot London. CARAWAY.—Dutch old-crop is offering at 175s., duty paid. CELERY.—Indian quiet with sellers asking 152s. 6d., spot. CORIANDER.—Spot Morocco is 80s., duty paid (72s. 6d., in bond), Danubian, or Rumanian, 65s., duty paid. Shipment, Morocco, quoted at 58s. 6d., c.i.f. CUMIN.—Spot Cyprian 125s.; Morocco, 127s. 6d., duty paid. Shipment, Cyprian quoted at 108s., c.i.f. Morocco, 109s. for February/March. DILL.—Indian offering on spot at 95s. FENNEL.—Indian and Chinese quoted at from 92s. 6d. to 95s., spot London. FENUGREEK.—Firm. Spot Morocco is 57s. 6d., duty paid. Stock at origin said to be exhausted. MUSTARD.—English offered at from 75s. to 90s., according to quality.

SENEGA.—Spot value is 23s. 6d. per lb. with shipment offers at 24s., c.i.f.

SENNA.—*Tinnevelly* LEAVES (per lb.), prime No. 1, 1s. 1d.; No. 2 (dry crop), 9½d.; prime No. 3, 8d.; f.a.q., No. 3, 7d.; PODS, f.a.q., 7½d.; hand-picked, from 1s. 6½d. to 2s. 10d. as to quality, all on the spot. *Alexandrian* manufacturing pods, 2s. spot.

SERPENTARIA.—Root is offered at 37s. per lb. on the spot.

SHELLAC.—Fine orange, 455s. to 500s. per cwt.; F.O.T.N. pure, 410s. ex London warehouse. Other grades are nominal.

SLIPPERY ELM.—Grinding quality bark is 2s. 7d. per lb., landed.

SQUILL.—Scarce. Italian white on the spot is 90s. per cwt. with origin asking 97s. 6d., c.i.f.

STRAMONIUM.—Indian LEAVES are 75s. per cwt. and European 80s. on the spot.

STROPHANTHUS.—*Kombé* is 7s. 6d. and 9s. per lb. as to crop. *Gratus* is 14s.

STYRAX.—Spot is 5s. 7d. per lb.

TONKA BEANS.—Frosted Para are 6s. per lb. on the spot.

TRAGACANTH.—Scarce. No. 1 ribbon is £155 to £160 per cwt.; No. 2, £120 to £125; No. 3, £105 to £110.

TURMERIC.—Rajapore offering at 215s. per cwt. on the spot. New-crop Madras finger for April-May shipment is offered at 110s., c.i.f., and March-April, 115s., c.i.f.

VALERIAN.—Indian is 160s. per cwt. on the spot and from 152s. 6d., c.i.f. Belgian, 185s., spot.

VANILLIN.—Rates (per lb.) are:—5-cwt. lots, 30s.; 1-cwt., 30s. 3d.; 56-lb., 30s. 6d.; smaller quantities, 30s. 9d.

WITCH HAZEL LEAVES.—Firm at 1s. 9d. per lb. on the spot.

Essential and Expressed Oils

ANGELICA SEED.—Price per lb. is now quoted at 260s.

ANISE.—Chinese is quoted at 19s. 9d. per lb. on the spot and 19s. 6d., c.i.f.

BAY.—West Indian is 12s. per lb. on the spot.

BERGAMOT.—Spot quotations are now 67s. 6d. per lb.

BIRCH TAR.—Rectified is about 14s. per lb. in 1-cwt. lots.

CANANGA.—Supplies to come forward are quoted at from 55s. per lb., c.i.f. Spot is from 60s. 6d. per lb.

CARDAMOM.—Price per lb. is from 360s. for English distilled and 295s. for imported.

CASSIA.—Original drums are about 16s. 6d. per lb. for spot with shipment prices nominal.

CHAMOMILE.—English oil is offered at from 270s. to 288s. per lb.

CHENOPODIUM.—1-cwt. lots are 45s. per lb.

CITRONELLA.—Ceylon is steady at 8s. per lb. on the spot and 7s. 7d., c.i.f.; Formosan and Java are 12s. 6d. in bond and c.i.f.

CLOVE.—Madagascar leaf is 12s. per lb., duty paid and 10s. 3d., c.i.f., for shipment. Redistilled stem oil from 19s.; distilled bud oil, English, from 37s. 6d. to 40s.; imported, 18s. 6d. to 19s. 6d.

COD-LIVER.—B.P. is 11s. 6d. per gall. in charged returnable drums. Veterinary is from 9s. 6d. per gall.

DILL.—B.P. English-distilled oil is quoted at 60s. per lb. Imported oils are offered at from 33s. 6d. per lb.

EUCALYPTUS.—Australian 70 to 75 per cent. eucalyptol on the spot is 5s. 3d. per lb., and 80 to 85 per cent., 5s. 6d. Spanish, 70 to 75 per cent., 4s. 11d., duty paid.

GERANIUM.—Bourbon is 82s. 6d. per lb. on the spot and Algerian, 76s. 6d.

GINGER.—English-distilled oil is 160s. per lb. nominal, with cheaper grades down to 115s. Imported oils are available at from 122s. 6d. per lb.

GRAPEFRUIT.—Australian is 14s. 6d. per lb. spot; Californian, cold pressed, 20s., c.i.f., subject to licence.

LAVENDER.—Scarce. 38-40 per cent. linalol on the spot is 90s. per lb. 40-42 per cent., 100s., nominal.

LAVENDER SPIKE.—Spanish is from 13s. 6d. per lb.

OLIVE.—Spanish virgin and pharmaceutical oils (B.P.) are offered on the basis of £214 10s. per 1,000 kilos, f.o.b., Spanish ports for prompt shipment. Equivalent landed terms ex-wharf London/Liverpool: French virgin new-crop or B.P., £220 per 1,000 kilos, c. and f., January shipment.

ORANGE.—Spot offers for sweet vary between 7s. 6d. and 8s. 6d. per lb. as to quality. Bitter orange, 24s. spot. Californian sweet, 6s., c.i.f., and cold-pressed U.S.P. 9s. 3d., c.i.f., subject to licence.

ORIGANUM.—In original containers the price is 13s. to 14s. per lb.

OTTO OF ROSE.—Spot offers are in the region of 425s. per oz. for genuine Bulgarian and 180s. per oz. for Anatolian.

PALMAROSA.—East Indian is 60s. per lb. on the spot, and 57s. 6d., c.i.f. for shipment. Formosan, 37s. 6d., spot.

PATCHOULI.—Penang is 59s. per lb., duty paid and 53s., c.i.f.

PENNYROYAL.—Spot value is from 17s. to 18s. per lb., duty paid.

PEPPERMINT.—*Arvensis*: Chinese is 44s. 6d. spot and 44s., c.i.f. Brazilian, 35s. and 32s., c.i.f. Italian "Mitcham" type oil is from 72s. 6d. to 80s., spot, and American 60s. to 65s.

PINE.—*Pumilonis* on the spot is from 16s. per lb.; *sylvestris*, 9s. Siberian (*abietis*), 11s.

ROSEMARY.—Spanish oil on the spot is from 5s. 3d. to 5s. 9d. per lb., duty paid, as to quality.

RUE.—Spot offers are from 14s. per lb.

SAGE.—Spanish is offered at from 9s. 3d. per lb. and Dalmatian at 50s., duty paid.

SANDALWOOD.—Mysore is 75s. per lb.; East Indian 72s. 6d. Australasian, 39s.

SASSAFRAS.—Brazilian on the spot is 8s. 6d. per lb.

SPERMINT.—Offers of U.S.P. quality vary between 33s. 6d. and 38s. per lb. on the spot. Dutch quoted at 32s. 6d., duty paid.

TANGERINE.—Good quality is scarce on the spot at 48s. per lb.

THYME.—B.P.C. is about 9s. 6d. per lb.

TITREE.—Small lots are offered at 13s. 6d. per lb.

UNITED STATES REPORT

NEW YORK, FEBRUARY 15: World developments caused MENTHOL prices to move higher; the Brazilian advanced to \$8.25 per lb. (up 25 cents); the Japanese to \$18.50 (\$1) and the synthetic *laevo* type to \$8.75 (90 cents). Higher per lb. among CRUDE DRUGS were SENECA at \$3.60 (up 10 cents) and WITCHHazel LEAVES, 23 cents (one cent). Lower per lb. were TOLU BALSAM at \$3.75 (down five cents); Sumatra BENZOIN, 30 cents (two cents); and GUM ACACIA, amber sorts, at 22 cents (one-half cent). Bourbon VANILLA BEANS dropped 25 cents to \$10.50 per lb. and whole Mexican beans to \$10.25 (down 50 cents). Higher per lb. among ESSENTIAL OILS were CEDARLEAF at \$3.00 (up 15 cents); East Indian SANDALWOOD, \$12.75 (75 cents); and RUE at \$2.00 (15 cents). Lower were BERGAMOT at \$10.25 (down \$1); CLOVE, \$3.50 (25 cents); GRAPEFRUIT, \$2.35 (five cents); and CHENOPODIUM, \$5.20 (five cents).

MISCELLANEOUS INQUIRIES

Penetrating Oil

What should be supplied as "compound penetrating oil"?

A SUITABLE formula for an all-purpose penetrating oil is:—

Heavy lubricating oil 27 to 32 per cent.
Amyl acetate 0.25 to 1 per cent.
Cottonseed oil 2 to 2.5 per cent.
Kerosene to 100 per cent.

Skin Tonics

Can you provide a formula for a skin tonic of a "watery" nature?

THE following are some formulas for skin tonics of a type that may suit the required purpose.

Witch hazel extract	60 gm.
Camphor water (1: 1000)	40 gm.
Preservative	q.s.
Colour	q.s.

Tincture of sage is reputed to have a freshening and stimulating effect, and a little eau de Cologne may also be employed for the same purpose.

Tincture of benzoin	2 gm.
Eau de Cologne	5 gm.
Witch hazel	20 gm.
Water to	100 gm.
Preservative	q.s.
Tincture of sage	5 gm.
Witch hazel	30 gm.
Alcohol	10 gm.
Water	55 gm.
Preservative	q.s.
Boric acid	2 gm.
Witch hazel	10 gm.
Industrial methylated spirit	10 gm.
Glycerin	5 gm.
Water	75 gm.
Preservative	q.s.
Colour	q.s.

Skin tonics may be perfumed using an aromatic distilled water (e.g., rose, orange), in place of a part of the ordinary water; or alternatively, by incorporating a suitable proportion of a perfume into precipitated chalk, and adding that to the liquid, which is agitated, allowed to age for a few days and then filtered.

Fluke and Worm Remedy

Could you please send us formulas and dosage for the latest fluke and worm remedy for sheep?

THE most satisfactory and efficient combined fluke and worm remedy is the mixture of phenothiazine and hexachloroethane which originated from the Ministry of Agriculture in Northern Ireland a few years ago. The formula is as follows:—

Phenothiazine	4½ lb.
Hexachloroethane	3 lb.
Copper sulphate	1 oz.
Cobalt sulphate	1 oz.

That quantity of the mixed powders is sufficient to dose about 100 sheep, the dose per animal being 30 gm. (of powder). It is, of course, made up with water and given as a drench. We would recommend the use of dispersible powders of both phenothiazine and hexachloroethane; otherwise difficulty will be experienced in producing a smooth, homogeneous and stable suspension when the drench is prepared by mixing with water. The quantity of powder

given in the formula is mixed with sufficient water to make a thin paste which is subsequently allowed to stand about twenty minutes. It is then diluted with more water to make ten pints of drench; the dose of drench for each sheep is 2 fl. oz. If you are considering the marketing of such a drench it may be desirable to produce a thinner suspension in which case more water could be used and the dose of the

liquid would be proportionately higher. The reasons for including copper and cobalt salts are (a) both elements are essential for haemoglobin production—sheep with worms are always anaemic, and (b) deficiencies of those elements cause pine and swayback. Regular dosing eliminates internal parasites, improves the blood and corrects mineral deficiencies if such deficiencies exist in the animal at the time.

PRINT AND PUBLICITY

Display Material

TRUFOOD, LTD., Green Bank, London, E.1: Available to chemists, through the company's representatives, the display piece illustrated. Unit



is designed to size 8½ in. x 4½ in. and 15½ in. high. Holds twenty-four jars of Spoonfoods, packed two deep on three shelves. Customer can see whole range and help herself.

BENGER'S, LTD., Holmes Chapel, Cheshire: New display material in connection with bonus offer closing on February 28.

SHOWCARDS AND LEAFLETS. New display material for the sheep products, of Evans Medical Supplies, Ltd., Speke, Liverpool, 19, includes counter leaflets, general and "Clock" showcards (adjustable to feature the product in seasonal demand), as illustrated.



Price Lists

ANGLO-FRENCH DRUG CO., LTD., 11 Guilford Street, London, W.C.1: Pharmaceutical Products, 1953, with amendments, January 1955. Pp. 4.

BRITISH SCHERINO, LTD., 229 Kensington High Street, London, W.8: Medical Specialities (Provisional List), January 1955. Pp. 10.

CIBA LABORATORIES, LTD., Horsham, Sussex: Pharmaceutical Preparations, Trade, January 1955. Pp. 8.

MACDONALD & SON, LTD., Hope Mills, Pollard Street, Manchester, 4: Surgical dressings, sanitary towels and surgical sundries. Section 1, January 1955. Pp. 14.

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD., Dagenham, Essex: Amendment to 1955 list of medical products. Pp. 4.

Periodicals

AUTOPACK, LTD., 22 Caroline Street, Birmingham, 3: Autopackaging, No. 1, January 1955. Pp. 8.

BRITISH PRODUCTIVITY COUNCIL, 21 Tothill Street, London, S.W.1: B.P.C. Bulletin, No. 15, December 1954. Pp. 4.

CHILEAN IODINE EDUCATIONAL BUREAU, Stone House, Bishopton, London, E.C.2: Current Iodine Literature, No. 20. Pp. 16.

TRADE MARKS

APPLICATIONS ADVERTISED
BEFORE REGISTRATION

From the "Trade Marks Journal," February 2

For cosmetic baths (3)

FAMULUS, 729,648, by Ernest Scharff, Kober & Co., Frankfurt-am-Main, Germany.

For pharmaceutical preparations and substances (5)

PAVATRINE, 703,237, by G. D. Searle & Co., Illinois, U.S.A. ANZACAL, 736,673, by Wright, Layman & Umney, Ltd., London, S.E.1.

For preparations of vitamins and of vitamins and minerals, all for pharmaceutical purposes (5)

AM PLUS, 724,485, by Chas. Pfizer & Co., Inc., New York, U.S.A.

For deodorants and disinfectants (5)

PURODA, B725,164, by Pritchards, Ltd., Cheadle, Cheshire.

For pharmaceutical preparations for human use for sale in Northern Rhodesia (5)

RYMON, B731,822, by Crowden Products (Pty) Ltd., Johannesburg, South Africa.

For anti-anæmic preparations (5)

INTRIBEC, 732,202, by Parke, Davis & Co., Michigan, U.S.A.

For all goods (5)

MACOPRIN, 732,399-400, by Macleans, Ltd., Brentford, Middlesex. VASOXINE, 735,176, by the Wellcome Foundation, Ltd., London, N.W.1. GOMOLIN, 736,216, by Gomax, Ltd., London, E.C.2. WINGED LION OF ST. MARK, 736,293, by Potter & Clarke, Ltd., Barking, Essex. AIDEX, 737,090, by Cuxson, Gerrard & Co., Ltd., Oldbury, Worcestershire.

For pharmaceutical preparations and substances, and medical and surgical plasters (5)

DALMAPLAST, 733,562, by Dalmas, Ltd., Leicester.

For medicated ointments (5)

VOLONA, 733,635, by Marie Gentry, London, W.C.2.

For herbal preparations in tablet form, being pharmaceutical preparations containing extracts from the valerian and scutellaria herbs for the treatment of nervous complaints (5)

VALCAP, 733,820, by J. Burges & Son, Stockport, Cheshire.

For anti-zymotic pharmaceutical preparations for vaginal use (5)

KEMOZYME, 736,011, by Modkem, Ltd., Leicester.

For pharmaceutical preparations for the treatment of anæmia (5)

LEDERNEMIA, 736,028, by American Cyanamid Co., New York, U.S.A.

For herbicides, insecticides and fungicides (5)

PREMONTOK, 737,299, by Monsanto Chemicals, Ltd., London, S.W.1.

For pharmaceutical preparations for human and veterinary use (5)

RONDEVAN, 737,331, by Evans Medical Supplies, Ltd., Speke, Liverpool.

For massage appliances and heat-activated appliances and pressure vaporisers all for use in the treatment of the skin or as inhalers (10)

FAMULUS, 729,649, by Ernest Scharff, Kober & Co., Frankfurt-am-Main, Germany.

From the "Trade Marks Journal," February 9

For fatty acids (1)

FRAKTIONIT, B731,415, by Dansk Sojekage Fabrik, Copenhagen, Denmark.

For chemical products for use in the treatment of water (1)

AQUATROL, 734,149, by National Aluminate Corporation, Delaware, U.S.A.

For all goods (1)

VERMOREL, B734,269, by Phillips & Pain Vermorel, Seine, France. VULKOLLAN, 736,705, by Farbenfabriken Bayer, A.G., Leverkusen, Germany.

For chemical products used in industry, science, photography, agriculture, horticulture and forestry (1)

TEROKAL, 735,117, by Terosonwerke, G.m.b.H., Heidelberg, Germany.

COMING EVENTS

Monday, February 21

BIRKENHEAD AND WIRRAL PHARMACISTS' ASSOCIATION, General Hospital, Birkenhead, at 8 p.m. Address by Dr. W. J. Lobban (medical officer of health).

FINCHLEY DIVISION, NORTH LONDON PHARMACEUTICAL ASSOCIATION AND NORTH METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Bull and Butcher Hotel, Totteridge Corner, Whetstone, at 8 p.m. Address on "Barrier Creams" by a representative of Innoxa (England), Ltd.

ROMFORD BRANCH, PHARMACEUTICAL SOCIETY, Unicorn Hotel, Gidea Park, at 7.45 p.m. Mr. O. G. Jones, M.R.C.V.S. (curator of mammals, Zoological Society of London) on "Veterinary Attention to Wild Animals in Captivity."

Tuesday, February 22

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome club, High Street, Dartford, at 8 p.m. Mr. A. S. Hughes on "Barrier Creams": Technicolor sound film "Safe Hands."

EAST KENT BRANCH, PHARMACEUTICAL SOCIETY, Falstaff Hotel, Canterbury, at 8 p.m. Dr. K. R. Capper (editor of the Society's scientific publications) on "The Society's Scientific Publications."

MANCHESTER BRANCH, GUILD OF PHARMACISTS, Grand Hotel, Manchester, at 6.30 for 7 p.m. Annual dinner and dance.

MIDLANDS SECTION, SOCIETY FOR ANALYTICAL CHEMISTRY, Mason theatre, the University, Edmund Street, Birmingham, 3, at 7.15 p.m. Inaugural meeting. Dr. D. W. Kent-Jones (president of the Society) on "Developments in the Society for Analytical Chemistry."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Co-operative educational hall, Western College Road, Plymouth, at 7.30 p.m. Address by the Rev. N. H. Clarke (Bishop of Plymouth).

Wednesday, February 23

ABERDEEN PHARMACEUTICAL ASSOCIATION, Gloucester Hotel, Aberdeen, at 8 p.m. Annual dinner and dance. Ticket 16s. 6d. from Mr. A. J. Gray, 23 King Street, Aberdeen.

COVENTRY AND WARWICKSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Craven Arms hotel, High Street, Coventry, at 8 p.m. Meeting, dinner and entertainment.

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Danecourt, Church Hill, Walthamstow, at 8 p.m. Members' night.

JUNIOR BRANCH, MANCHESTER PHARMACEUTICAL ASSOCIATION, McVitie & Price, Ltd., biscuit works, Levenshulme, Visit.

C. & D. WEEKLY LIST OF PRICES

A=Advanced; R=Reduced; I.R.P.=Inclusive Retail Price; *=Tax 25 per cent.; †=Tax 75 per cent.

BUTLER & CRISPE, LTD. (deletion) Murray's gout specific.

NEW PRODUCTS AND PACKS

BRITISH SCHERING, LTD. Hospital price

Urografin 20-c.c. ampoules 1 9 0
5 44 0IMPERIAL CHEMICAL (PHARMACEUTICALS, LTD. Bradford sheep-marking fluid $\frac{1}{2}$ gall. 108 0 13 6
1 gall. 200 0 25 0

KUMAR (LONDON), LTD. Ascum tablets* 1 3

PHARMACEUTICAL SPECIALITIES (MAY & BAKER), LTD. Brevidil M, 100 mgm. in 2-c.c. ampoule 10 x 2 c.c. 11 3
50 x 2 c.c. 39 0
50 mgm. per c.c. 10 c.c. 4 0

PRIORY LABORATORIES, LTD. Cetrimide shampoo* 2 4

RAPIDOL, LTD. Inceto colour cream† 40 0 7 6

SMITH & NEPHEW, LTD. Lil-lets 10 1 6

TAYLOR REESON LABORATORIES, LTD.

Doz. 2 1 A

Andfra hair tonic† 42 0 9 6

3-doz. lots 36 0 9 6

Postage extra on orders less than £3 without tax.

P.A.T.A. PROTECTED LIST

THE BRITISH PATENT PERFORATED PAPER CO., LTD. (from February 14)

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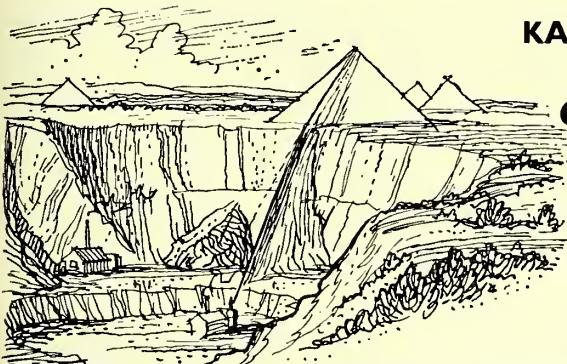
Bronco toilet rolls 135 0

Sleep Sweeter **BOURNVITA**



Made by **CADBURY**

KAOLIN FROM CORNWALL... but
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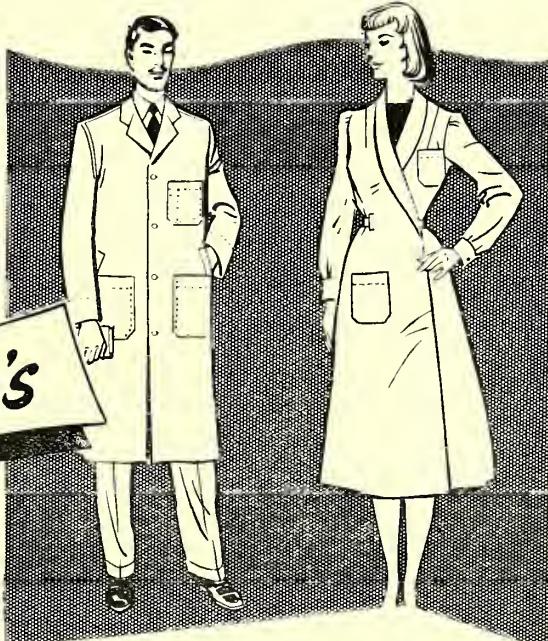


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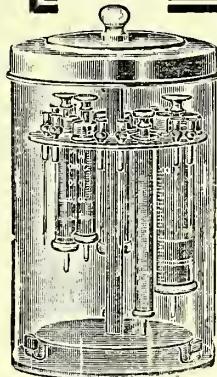
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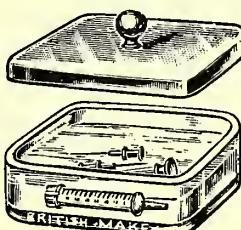
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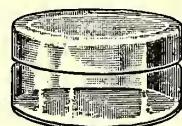
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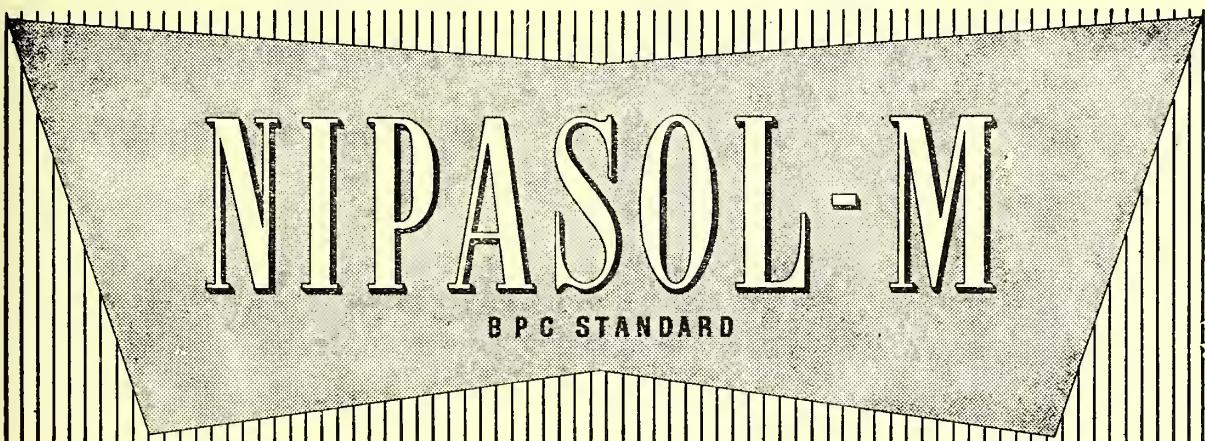


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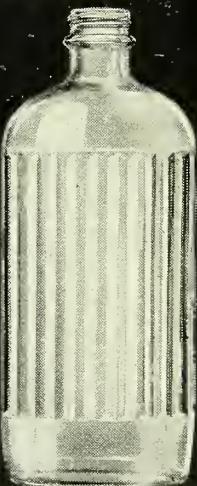


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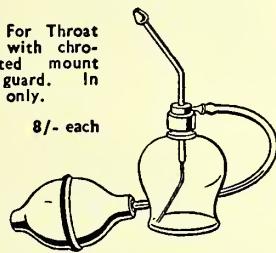
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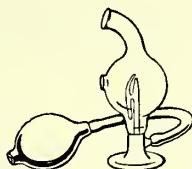
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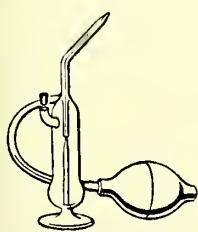
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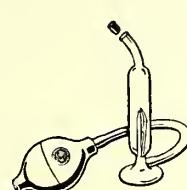
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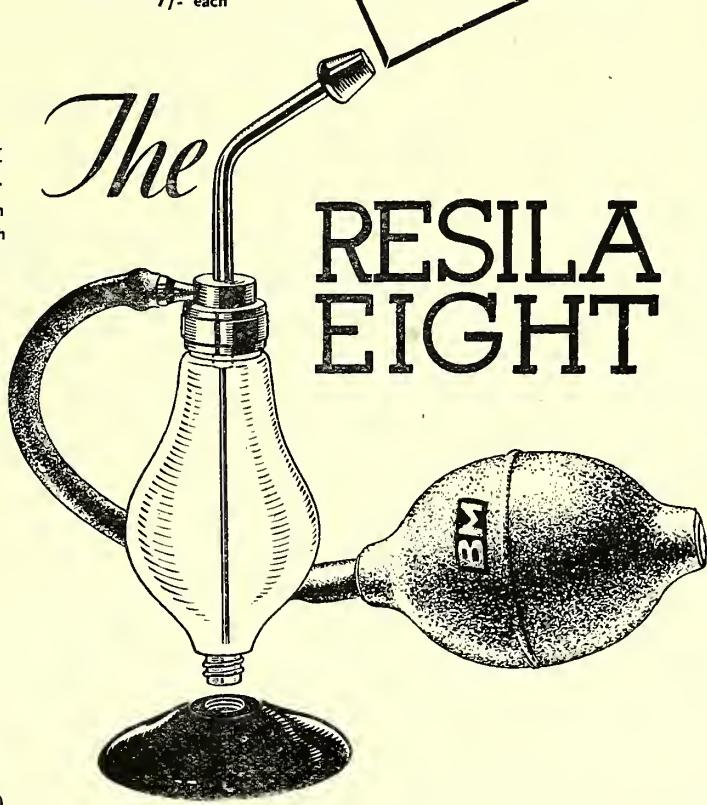
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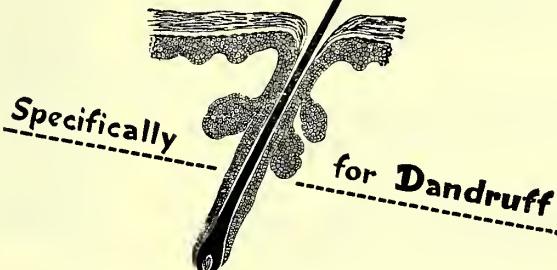
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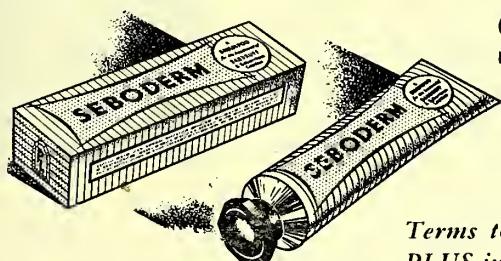
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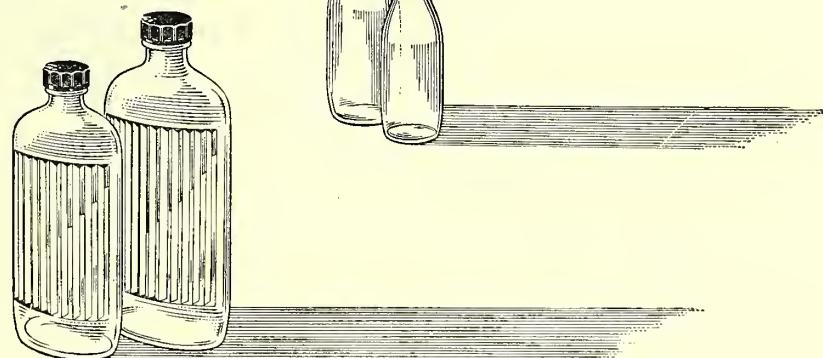


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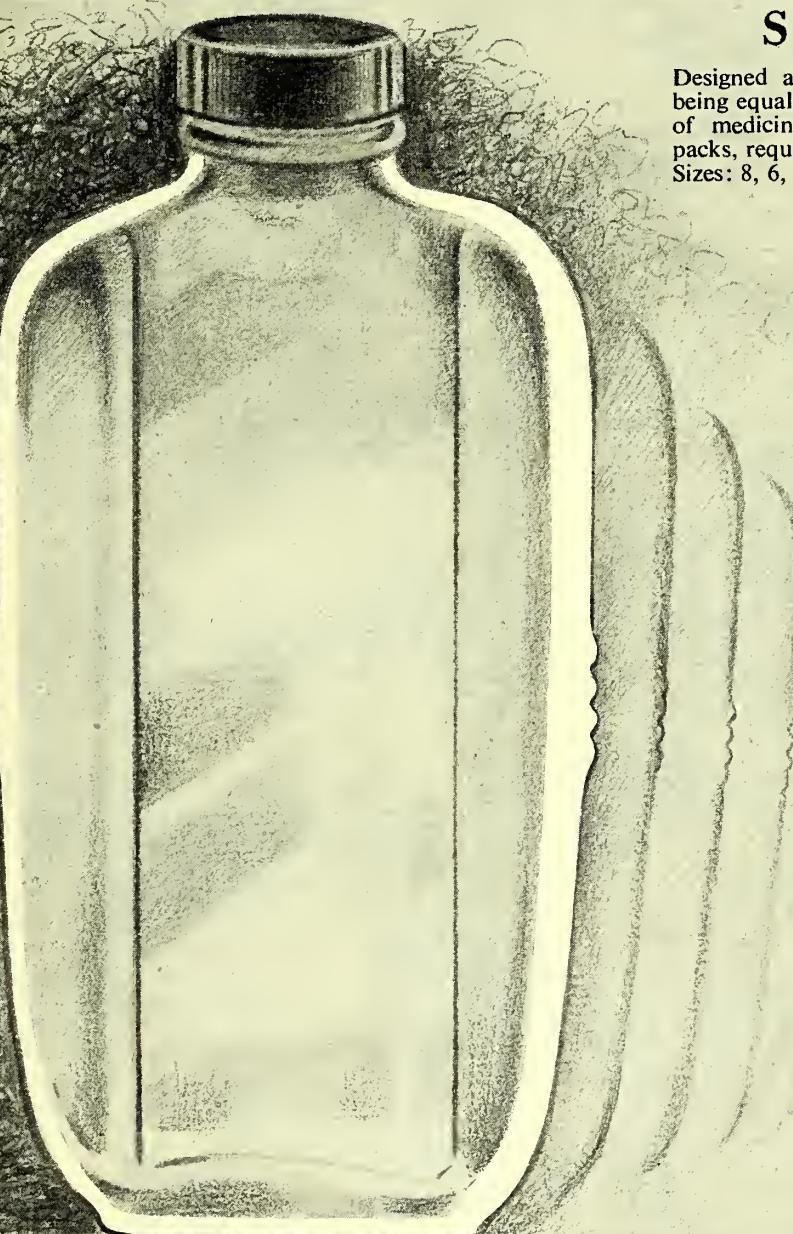


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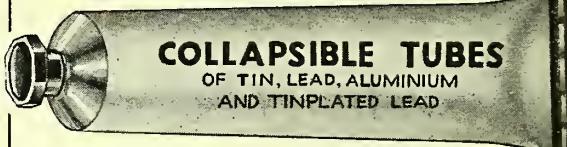
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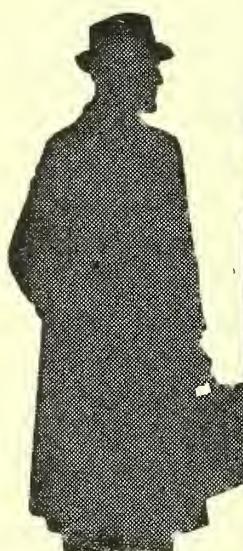
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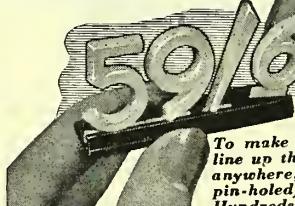
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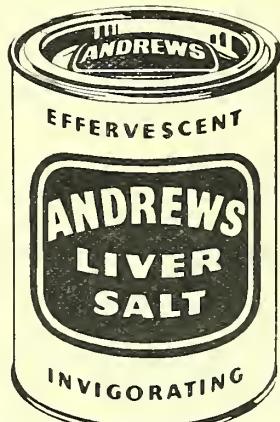
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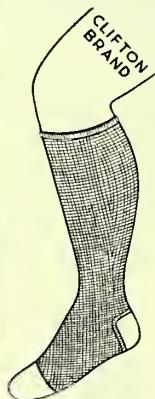
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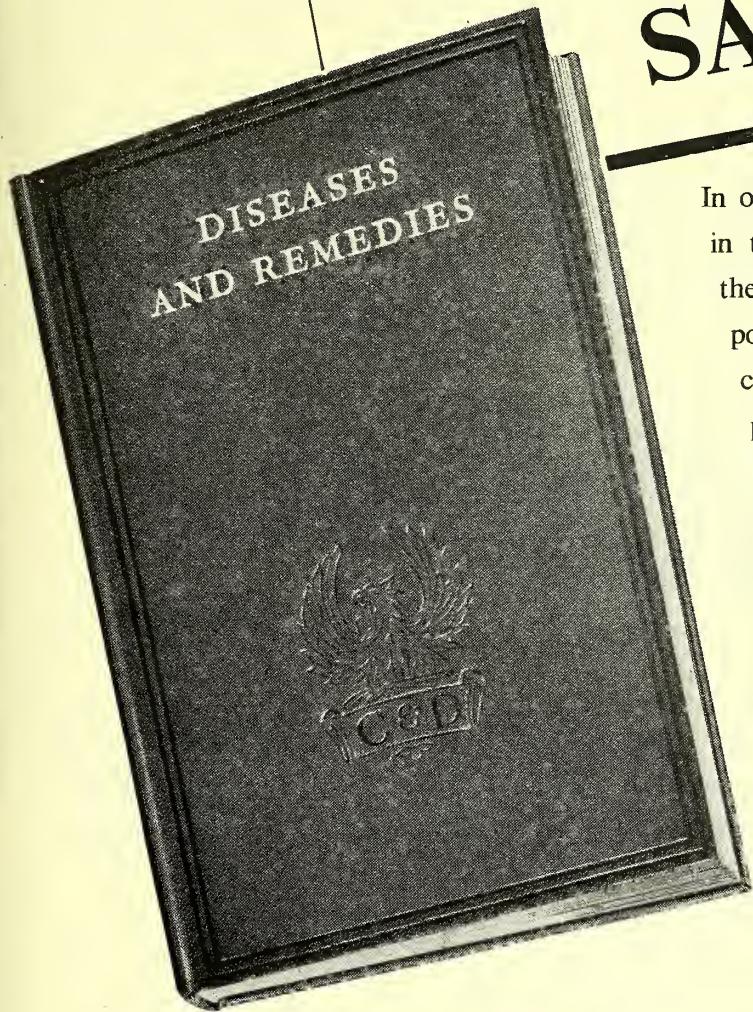
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Applications are invited for this vacancy at the Darlington Memorial Hospital. Salary scale for pharmacist, £450 (age 23) x £25 to £575; for senior pharmacist, £525 x £25 to £625. Applications in writing together with names of two referees to the Secretary. C 8057

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Applications are invited for the post of Deputy Chief Pharmacist. Salary £625-£725 p.a. plus London Weighting. Applications stating age, qualifications and full details of experience with names of two referees to Group Secretary, Central Middlesex Group H.M.C., Acton Lane, N.W.10, by February 28, 1955. C 8117

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Applications are invited from registered Pharmacists for this appointment at the Chorley and District Hospital. Salary £450 x £25—£575. Higher qualification allowance of £25 payable where applicable. Whitley Council conditions.

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 (male or female)

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Pharmacist or Locum Pharmacist

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The engagement of persons answering these advertisements must be made through a Local Office of the Ministry of Labour or a Scheduled Employment Agency if the applicant is a man aged 18-64 inclusive or a woman aged 18-59 inclusive unless he or she, or the employment, is excepted from the provisions of the Notification of Vacancies Order, 1952.

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CAPABLE, enthusiastic man as assistant in large medical booksellers. High commencing salary with excellent opportunities of advancement. Apply Foyle's, 121 Charing Cross Road, W.C.2. C 8101

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BAYER PRODUCTS LIMITED

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EVANS MEDICAL SUPPLIES, LIMITED, invite applications for a senior managerial position involving responsibility for the distribution and dispatch divisions of their factory at Speke, Liverpool, 19. Preference will be given to applicants between the age of 30 and 42 and to those having some knowledge of the pharmaceutical industry. Applications will be treated as strictly confidential, and should be addressed to the Production Director. C 8102

LABORATORY ASSISTANTS, female, required, some experience of analytical and/or bacteriological control work preferable. Matric. or Inter. standard desirable but not essential. Rousell Laboratories, Ltd., 847 Harrow Road, N.W.10. C 8096

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SCOTLAND. Yorkshire and Northern Counties, Lancashire and Cheshire. Representatives or agents required for above areas by manufacturers of superbly presented and readily saleable proprietaries and medicated confectionery. Consideration given to those seeking joint representation with present house. Applicants must be car owners with firmly established connections amongst chemists and allied trades. The positions provide real scope. Remuneration by arrangement. Replies giving complete information, in confidence, to Box C 2187.

SHARP & DOHME, LTD. Applications are invited for vacancies as Medical Representatives in the following areas: (a) North and East Ridings Yorkshire; (b) South Yorkshire; (c) Midlands. Applicants should be men of initiative who are interested in securing satisfying and progressive positions with this company. Duties will consist of calling on doctors, chemists and hospitals, but previous experience in this type of work is not entirely necessary since theoretical and practical training is given. Company cars are provided for the successful applicants. Candidates aged 24-35, who will be prepared to take a long-term view of a career with considerable prospects, should send personal details to Sales Manager, Sharp & Dohme, Ltd., Hoddesdon, Herts. C 8121

T. & H. SMITH, LTD., have a vacancy in their works at Edinburgh for a pharmacist or chemist, under 35 years of age, for interesting work in connection with the development and production of allergy preparations. Superannuation scheme in force. Apply giving full personal particulars to Works Director, T. & H. Smith, Ltd., Blandfield Chemical Works, Wheatfield Road, Edinburgh, 11. C 8109

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DO YOU REQUIRE A PHARMACIST and an experienced unqualified? If you do my wife and I will be interested in hearing from you. Box C 2196.

WHOLESALE

EX-MEDICAL STUDENT, having passed four professional examinations, with experience of general practice, unable to finish qualification, desires suitable employment with drug house, any capacity. Box C 2181.

EXPERIENCED REPRESENTATIVE with first-class chemist connection, South Wales, seeks appointment with reputable company. Salary/expenses basis. Box C 2182.

FRENCH PHARMACEUTICAL PRODUCTS, doctor, experienced in translating and adapting French publicity material, offers services to British or Continental manufacturers and importers. Box C 2127.

MALE seeks post manufacture, dispensing, hospital, analytical laboratory in London. References by interview. Box C 2197.

MY RECORD in the formulation and production of cosmetics, perfumes, toilet and pharmaceutical preparations covers thirty years and a status of chief chemist to several well-known companies. I desire now to contact a progressive firm, preferably within the Greater London area, where this experience and a service well above the average, can be used to mutual advantage. Box C 2193.

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Box 2/-**EXPERIENCED REPRESENTATIVE** with own car and first-class pharmaceutical connection in Cornwall, Devon, Somerset, Dorset, Hants, Wilts and Gloucestershire, requires agency on commission basis. Excellent references. Box C 2185.**PAKISTAN.** Wanted, agencies for drugs, medicines, chemicals, packing material and allied products. Write Western Trades Co., 38 Lakshmi Buildings, Karachi. C 1978**BUSINESS OPPORTUNITIES**17/6 for 36 words (min.) then 4d. per word.
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